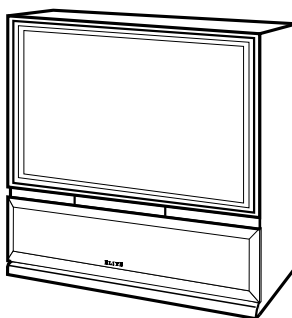


Service Manual

Pioneer



ORDER NO.
ARP3024

PROJECTION MONITOR RECEIVER

PRO-700HD

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	PRO-700HD		
KUXC/CA	○	AC120V	

- The PRO-700HD service manual is composed of ORDER NO. ARP3024 and ORDER NO. ARP3013. Use these two manuals as one set. For other details, refer to the separate manual (ORDER NO. ARP3013).

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ORDER NO.
ARP3024

ORDER NO.
ARP3013

5. PCB PARTS LIST

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

●The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

●When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω \rightarrow 56×10^1 \rightarrow 561 RD1/4PU $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J
 47k Ω \rightarrow 47×10^3 \rightarrow 473 RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J
 0.5 Ω \rightarrow R50 RN2H $\begin{bmatrix} R & 5 & 0 \end{bmatrix}$ K
 1 Ω \rightarrow 1R0 RS1P $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω \rightarrow 562×10^1 \rightarrow 5621 RN1/4PC $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$ F

●Parts marked by \star are important parts which relate in X-rays radiation.

If any of these parts need to be replaced, always replace with specified parts.

●Parts marked by \times are important parts which relate in X-rays radiation. If a failure occurs in any of these parts, replace the printed circuit board assembly where the relevant part has already been adjusted as a working component. Do not replace the actual part itself. If any part marked by \times is replaced, there is danger of being exposed to X-rays.

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
LIST OF ASSEMBLIES							
		POWER SUPPLY ASSY	AWV1710	△	Q201 ,Q208		2SK1938-R
☆		DEFLECTION SERVICE ASSY	AWV1731		D220 ,D229 ,D246 ,D247		10DF2
		AMP ASSY	AWV1712				
NSP		CONV.DAC ASSY	AWV1713		D205 -D209 ,D211 -D213		1SS254
	└	CONVER.DAC ASSY	AWZ6333		D215 -D219 ,D238 ,D240 -D244		1SS254
	└	CONNECTOR ASSY	AWZ6335		D248 ,D250 -D254 ,D256 -D259		1SS254
	└	FRONT CONTROL ASSY	AWZ6337		D261 ,D264 ,D269 ,D271		1SS254
	└	LED DPO ASSY	AWZ6338		D268		D10SC4M
	└	FRONT INPUT ASSY	AWZ6339		D203		D3L60
	└	SR ASSY	AWZ6340		D267		D5S9M
	└	POWER SW ASSY	AWZ6341		D263		ERB93-02L3
	└	SR BNC ASSY	AWZ6342		D228 ,D245 ,D260		HZS18L
		AV I/O ASSY	AWV1714		D204 ,D210 ,D237 ,D239		HZS6C2L
		TUNER u-COM ASSY	AWV1715		D225 ,D234 ,D265 ,D266		MA723
		VIDEO ASSY	AWV1716		D227 ,D236		MTZJ20
		SIGNAL ASSY	AWV1717		D226 ,D235		RD12ESB
					D214 ,D221 -D224 ,D230 -D233		RD5.1ESB
					D249 ,D255		RD5.1ESB
NSP		AC IN, CRT SERVICE ASSY	AWV1732		D201 ,D202 ,D262		YG911S2R
	└	AC IN ASSY	AWZ6353	COILS AND FILTERS			
	└	R CRT DRIVE ASSY	AWZ6344		L215 ,L216 ,L224 ,L225		ATH-059
	└	G CRT DRIVE ASSY	AWZ6345		L227 ,L228 ,L229		ATH-059
	└	B CRT DRIVE ASSY	AWZ6346		L218 ,L221 ,L223		ATX1021
		SUB VIDEO ASSY	AWV1718	TRANSFORMERS			
		TV FRONT END SYSTEM UNIT	AXF1084	△	T201		ATK1124
		RF SW	AXF1098	△	T202		ATK1125
				SWITCHES AND RELAYS			
					RY201		ASR1050
POWER SUPPLY ASSY				CAPACITORS			
SEMICONDUCTORS					C268, C270, C271 (4700pF/250V)		ACE1105
△	IC201 ,IC207	AN8029			C209 (100pF/2000V)		ACG-032
	IC208	NJM7809FA			C254 (1500pF/2000V)		ACG1007
	IC202 ,IC205	ON3171-Q			C260 (3300pF/2000V)		ACG1008
	IC203 ,IC206	PQ30RV11(A)			C253 ,C256, C277, C278		
	IC204	PQ30RV31			(4700pF/2000V)		ACG1028
	Q206 ,Q207 ,Q209 ,Q214 ,Q215	2SA933S			C203 (560μF/160V)		ACH1146
	Q204 ,Q205 ,Q210 -Q213	2SC1740S			C201 ,C202 ,C262 (820μF/200V)		ACH1148
	Q202 ,Q203	2SC2705			C267 (3300μF/16V)		ACH1313
					C269 (6800pF/250V)		ACE1108

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Mark	No.	Description	Part No.
	C234		CCCSL221J50
	C231	-C233 ,C235 ,C263 ,C264	CCCSL221K2H
	C213	-C219 ,C230 ,C246 ,C247	CEHAT100M50
	C250		CEHAT100M50
	C220 ,C251		CEHAT101M10
	C224 ,C228		CEHAT101M25
	C206		CEHAT102M10
	C275		CEHAT102M6R3
	C210 ,C212 ,C225 ,C229		CEHAT1R0M50
	C248		CEHAT221M50
	C207 ,C208		CEHAT222M35
	C265 ,C266		CEHAT332M10
	C236 ,C237		CEHAT332M16
	C205		CEHAT332M35
	C249		CEHAT470M50
	C252		CFTXA104J50
	C238	-C245 ,C276	CKCYB103K50
	C257		CKCYB331K50
	C272		CKCYB471K50
	C204		CKCYE103P2H
	C261 ,C274		CKDYB103K50
	C223		CQMA102J50
	C211		CQMA103J50
	C258		CQMA182J50
	C221 ,C226		CQMA333J50
	C255		CQMA392J50
	C259		CQMA472J50
	C222 ,C227		CQMA473J50
	C273		CQMA823J50
RESISTORS			
	R232 ,R244 ,R288		RD1/2MMF100J
	R290		RD1/2MMF181J
	R209		RD1/2PM271J
	R231 ,R243		RD1/4MUF681J
	R206 ,R207		RN1/4PC1603F
	R291		RN1/4PC2001F
	R292		RN1/4PC2200F
	R217		RN1/4PC2701F
	R218		RN1/4PC3301F
	R208 ,R211		RN1/4PC3601F
	R213		RN1/4PC3602F
	R215		RN1/4PC3900F
	R212 ,R214		RN1/4PC3901F
	R216		RN1/4PC8200F
	R286		RS1MMF151J
	R238 ,R250		RS1MMF220J
	R282		RS1MMF221J
	R201 ,R228 ,R239 ,R240		RS1MMF333J
	R202 ,R203		RS1MMF473J
	R204		RS2MMF223J
	R263		RS2MMF472J
	R247 ,R248		RS2MMFR22J
	R235 ,R236		RS2MMFR56J
	R266		RS3LMF391J
	R279 ,R280 ,R284 ,R285		RT10PZ120K

Mark	No.	Description	Part No.
	R281		RT10PZ390K
	VR201		VRTHS6VS102
	VR202		VRTHS6VS471
	Other Resistors		RD1/4PU□□□□
OTHERS			
	8010	SCREW	ABA1228
	CN202	PLUG 2-P	AKM1127
	CN201	PLUG 3-P	AKM1128
	H201 -H206 ,H211	-H216	AKR1003
	201	SW HEAT SINK	ANH1505
	8011	SCREW	BBZ30P080FCU
	8012	SCREW	BMZ30P100FZK
	CN208	PLUG 10-P	KM250MA10
	CN206	PLUG 10-P	KM250MA10B
	CN210	PLUG 11-P	KM250MA11B
	CN203	PLUG 12-P	KM250MA12R
	CN204	PLUG 15-P	KM250MA15
	CN205	PLUG 4-P	KM250MA4
	CN211	PLUG 5-P	KM250MA5
	CN209	PLUG 8-P	KM250MA8
△	FU205	FUSE 2.5A/125V	REK1079
△	FU203	FUSE 4A/125V	REK1082
△	FU204 ,FU206	FUSE 5A/125V	REK1083
△	FU201 ,FU202	FUSE 6.3A/125V	REK1085
AMP ASSY			
SEMICONDUCTORS			
	IC907		CA0007AD
	IC1171		CXA1315P
	IC906 ,IC908 ,IC909		M5220P
	IC912		M5223AP
	IC1205		MC14066BCP
	IC905		NJM072BD-E
	IC1204		NJM2187L
	IC1203 ,IC1210		NJM4558LD
	IC901		NJM7805FA
	IC902		NJM79M05FA
	IC903 ,IC904		STK392-040
	IC1202		STK4412
	IC910		TC4052BP
	IC911 ,IC913		TC74HC4538AP
	IC1201		UPC1853CT-01
	Q1131 ,Q1140 ,Q1205 ,Q1219 ,Q1225	2SA933S	
	Q902 ,Q904 -Q906 ,Q909 ,Q911	2SA933S	
	Q923	2SA933S	
	Q1133	2SB950A	
	Q1132 ,Q1135 -Q1139 ,Q1206 ,Q1208	2SC1740S	
	Q1218 ,Q1220	2SC1740S	
	Q1222 -Q1224 ,Q1226 ,Q901 ,Q903	2SC1740S	
	Q907 ,Q908 ,Q910 ,Q912 -Q916	2SC1740S	
	Q921 ,Q922 ,Q924	2SC1740S	
	Q1171	2SC2235	
	Q1202 ,Q1203	2SC2878	
	Q1134	2SD1276A	
	D1131 ,D1133 -D1136 ,D1171 -D1174	1SS254	
	D1183 ,D1201 ,D1204 -D1209	1SS254	
	D1212 -D1214 ,D1218 ,D1226 -D1229	1SS254	

Mark	No.	Description	Part No.
	D1239 ,D1242 ,D1244 ,D1246 -D1248	1SS254	
	D921 -D924 ,D926 -D929	1SS254	
	D934 -D936 ,D938 -D941	1SS254	
	D1132 ,D1219	BR3371XJ30A	
	D1184	HZS9C1L	
	D1210 ,D1211 ,D1223 ,D1224	MTZJ15	
	D1233 ,D1234 ,D1245	MTZJ15	
	D1203	MTZJ5.1	
	D1175 ,D1178 ,D1179 ,D1181 ,D1182	RD12ESB	
	D913 -D920 ,D925 ,D930 -D933	RD12ESB	
	D937	RD12ESB	
	D901 -D912	S5688G	
	TH901	NTH4G42B104F01	

CAPACITORS

C929 ,C983 ,C984 ,C988	CCCSL101J50
C1133 ,C1134 ,C1139	CCCSL151J50
C1001 ,C1003 ,C916 ,C918 ,C920	CCCSL220J50
C987 ,C999	CCCSL220J50
C1136	CEANP100M35
C1223 ,C1224	CEANP220M16
C1235 ,C1236 ,C1276 ,C954 ,C955	CEHAT100M50
C961 -C971 ,C973 ,C993	CEHAT101M10
C901 ,C905	CEHAT101M16
C1252 ,C1277	CEHAT101M25
C1007 ,C1008 ,C909 ,C912	CEHAT101M35
C921 ,C922 ,C925 ,C926	CEHAT101M35
C1255	CEHAT101M50
C1210 ,C1280	CEHAT1R0M50
C1211 ,C1257 ,C1274 ,C1275	CEHAT220M50
C1138 ,C1140 ,C1266 ,C1267	CEHAT221M35
C1284 ,C1286	CEHAT222M50
C1208 ,C1209 ,C989	CEHAT2R2M50
C910 ,C914 ,C923 ,C928	CEHAT331M35
C902 ,C907	CEHAT331M6R3
C1260 ,C1263	CEHAT332M35
C1212 ,C1213	CEHAT3R3M50
C1137 ,C1172 ,C1173 ,C1175 ,C1201	CEHAT470M25
C1215 ,C1227 ,C1247 ,C1288	CEHAT470M25
C1299 -C1301 ,C932	CEHAT470M25
C1254 ,C1256	CEHAT470M50
C1205	CEHAT471M10
C1202 ,C1203	CEHAT4R7M50
C1204 ,C1279	CEHATR10M50
C1258 ,C1259	CES41R0KJ
C941	CFTXA104J50
C1307 ,C1308 ,C944	CFTXA105J50
C1242 ,C1244	CFTYA103J50
C1262 ,C1265	CFTYA104J50
C1243 ,C1246	CFTYA224J50
C1131 ,C1132 ,C1135	CKCYB102K50
C1297 ,C1298	CKCYB122K50
C995	CKCYB222K50
C1004 -C1006 ,C979 -C981	CKCYB331K50
C1225 ,C1226	CKCYB471K50
C1000 ,C1002 ,C915 ,C917 ,C919	CKCYB681K50
C998	CKCYB681K50

Mark	No.	Description	Part No.
	C1009 ,C1010 ,C1141 -C1144 ,C1171	CKCYF103Z50	
	C1174 ,C1206 ,C1217 ,C1228 ,C1239	CKCYF103Z50	
	C1248 ,C1250 ,C1251 ,C1253 ,C1278	CKCYF103Z50	
	C1287 ,C1305 ,C1306 ,C903 ,C904	CKCYF103Z50	
	C906 ,C908 ,C911 ,C913 ,C924	CKCYF103Z50	
	C927 ,C930 ,C931 ,C933 -C939	CKCYF103Z50	
	C945 ,C949 -C951 ,C956 -C960	CKCYF103Z50	
	C972 ,C974 ,C975 ,C982 ,C992	CKCYF103Z50	
	C1292	CQMA102J50	
	C1011 ,C946	CQMA103J50	
	C1218 -C1220	CQMA104J50	
	C947	CQMA152J50	
	C1290	CQMA222J50	

C1291 ,C1294	CQMA223J50
C1240 ,C1241 ,C1245 ,C976 ,C977	CQMA472J50
C1296	CQMA681J50
C1293 ,C1295	CQMA682J50
C948	CQMA821J50
C1207	CQMA823J50

C994	CQPA471J2A
C978	CQPA472J2A
C942	CQPA561F2A
C990 ,C991	CQPA561J2A

RESISTORS

R1318	RD1/2MMF101J
R1392	RD1/2PM103J
R1324 ,R1328	RD1/2PM152J
R1325 ,R1329	RD1/4MUF4R7J
R969 ,R976 ,R985	RN1/4PC1001F

R974	RN1/4PC1302F
R970	RN1/4PC1303F
R971	RN1/4PC2002F
R981 ,R982	RN1/4PC2200F
R980	RN1/4PC2201F

R1057	RN1/4PC3001F
R973	RN1/4PC4702F
R983	RN1/4PC5101F
R984	RN1/4PC6802F
R1089 -R1092 ,R905 ,R906	RS1MMF101J

R921 ,R922	RS1MMF101J
R1190 ,R1244	RS1MMF220J
R1033 ,R1034 ,R902	RS1MMF470J
R1132	RS1MMF562J
R907 ,R908 ,R923 ,R924	RS1MMFR47J

R1153	RS2MMF1R2J
R1046 ,R1073 ,R1074 ,R1084 ,R1085	RS2MMF1R5J
R1131 ,R1145	RS2MMF2R2J
R1151 ,R1152	RS2MMFR47J
R1028 ,R1030 ,R1032	RS3LMF101J

R1205 ,R1399	RS3LMF1R0J
R1088	RS3LMF1R5J
R1029 ,R1031 ,R903	RS3LMF560J

R901	RS3LMF6R8J
Other Resistors	RD1/4PU□□□J

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Mark	No.	Description	Part No.
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OTHERS

1202 ,903	SCREW	BBZ30P080FCU
CN905 ,CN906	15P PLUG	KM200IA15
CN908	PLUG 10-P	KM250MA10
CN910	PLUG 10-P	KM250MA10B
CN1205	PLUG 4-P	KM250MA4

CN1206	PLUG 5-P	KM250MA5
CN1201,CN901	PLUG 6-P	KM250MA6
CN902	PLUG 6-P	KM250MA6B
CN903 ,CN907	PLUG 6-P	KM250MA6R
CN1202	PLUG 8-P	KM250MA8

CN904	PLUG 9-P	KM250MA9B
1203 ,901	SCREW	PMB30P160FZK
1131 ,902	SCREW	PMZ30P100FZK

F CONVER.DAC ASSY

SEMICONDUCTORS

R5094	RS1/16S0R0J
IC1405,IC1406	MC14052BF
IC1404	MC14066BF
IC1401,IC1402	PA0053B
IC1403,IC1408-IC1412	PM0011AS

Q1401 ,Q1403 ,Q1405 ,Q1407	2SA1162
Q1402 ,Q1404 ,Q1406 ,Q1408 -Q1410	2SC2712
D1401 ,D1402 ,D1404 -D1406 ,D1408	1SS226
D1410 -D1415 ,D1418 -D1421	1SS226

CAPACITORS

C1424 ,C1428 ,C1463 -C1466	CCSQCH101J50
C1481 -C1493 ,C1495 ,C1496 ,C1499	CCSQCH101J50
C1501 ,C1502 ,C1505 ,C1507 ,C1508	CCSQCH101J50
C1536	CCSQCH101J50
C1456	CCSQCH821J50

C1455	CCSRCH331J50
C1414 ,C1421 ,C1426 ,C1431 ,C1434	CEV100M16
C1437	CEV100M16
C1406	CEV101M16
C1409 ,C1412 ,C1413 ,C1420 ,C1422	CEV101M6R3

C1429 ,C1430 ,C1432 ,C1433	CEV101M6R3
C1435 ,C1436 ,C1439 ,C1441 ,C1443	CEV101M6R3
C1446 ,C1448 ,C1461 ,C1462 ,C1467	CEV101M6R3
C1469 ,C1474 ,C1476	CEV101M6R3
C1401 ,C1415	CEV1R0M50

C1416	CEV220M16
C1404 ,C1418	CEV330M10
C1417	CEV470M16
C1453	CEVR33M50
C1402	CEVR47M50

C1454	CFHSQ102J50
C1405	CFTYA184J50
C1407 ,C1411	CFTYA224J50
C1408 ,C1410 ,C1419 ,C1423 ,C1425	CKSQYF104Z50
C1427 ,C1438 ,C1440 ,C1442	CKSQYF104Z50

C1444 ,C1445 ,C1447 ,C1449 -C1452	CKSQYF104Z50
C1468 ,C1470 -C1473 ,C1475	CKSQYF104Z50
C1477 -C1480 ,C1511 -C1525	CKSQYF104Z50

Mark	No.	Description	Part No.
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RESISTORS

R1403 ,R1404 ,R1407 ,R1408 ,R1421	RS1/16S101J
R1432 -R1436 ,R1457 -R1463	RS1/16S101J
R1467 -R1472 ,R1494 -R1507	RS1/16S101J
R1529 -R1542 ,R1564 -R1577 ,R1603	RS1/16S101J
R1608 -R1614 ,R1618 -R1623 ,R1625	RS1/16S101J

R1642 ,R1645 ,R1650 -R1656	RS1/16S101J
R1660 -R1670 ,R1679 -R1685 ,R1688	RS1/16S101J
R1690 ,R1698 ,R1731 ,R1736 ,R1743	RS1/16S101J
R1748 ,R1772	RS1/16S101J
R1401 ,R1405 ,R1420 ,R1422	RS1/16S102J

R1437 ,R1438 ,R1482 ,R1517 ,R1552	RS1/16S102J
R1588 ,R1629 ,R1734 ,R1735	RS1/16S102J
R1746 ,R1747	RS1/16S102J
R1442 ,R1464 ,R1509 ,R1544 ,R1579	RS1/16S103J
R1615 ,R1624 ,R1627 ,R1657 ,R1689	RS1/16S103J

R1692 ,R1697 ,R1700 ,R1705 ,R1708	RS1/16S103J
R1713 ,R1716 ,R1721 ,R1724	RS1/16S103J
R1406 ,R1448 -R1455 ,R1476 -R1481	RS1/16S104J
R1489 ,R1490 ,R1492 ,R1493	RS1/16S104J
R1513 -R1516 ,R1524 ,R1525	RS1/16S104J

R1527 ,R1528 ,R1548 -R1551	RS1/16S104J
R1559 ,R1560 ,R1562 ,R1563	RS1/16S104J
R1583 -R1586 ,R1591 -R1600	RS1/16S104J
R1604 -R1607 ,R1635 -R1640	RS1/16S104J
R1646 -R1649 ,R1686 ,R1687 ,R1756	RS1/16S104J

R1641 ,R1751	RS1/16S113J
R1633 ,R1763	RS1/16S114J
R1755 ,R1761 ,R1764 ,R1765	RS1/16S124J
R1672 ,R1674 ,R1676 ,R1771	RS1/16S125J
R1729 ,R1737 ,R1739	RS1/16S153J

R1556	RS1/16S154J
R1484 ,R1519 ,R1555	RS1/16S163J
R1419 ,R1483 ,R1518 ,R1553 ,R1587	RS1/16S181J
R1628	RS1/16S181J
R1750	RS1/16S183J

R1677 ,R1762 ,R1767	RS1/16S184J
R1475 ,R1590 ,R1634	RS1/16S204J
R1417 ,R1465 ,R1466 ,R1508	RS1/16S221J
R1510 ,R1511 ,R1543 ,R1545 ,R1546	RS1/16S221J
R1578 ,R1580 ,R1581 ,R1601	RS1/16S221J

R1616 ,R1617 ,R1643 ,R1658 ,R1659	RS1/16S221J
R1418 ,R1424 -R1431 ,R1512 ,R1547	RS1/16S222J
R1582 ,R1602 ,R1644	RS1/16S222J
R1439 ,R1440 ,R1443 ,R1444 ,R1554	RS1/16S223J
R1730 ,R1738 ,R1768 ,R1769	RS1/16S223J

R1474 ,R1744 ,R1745 ,R1766	RS1/16S274J
R1521 ,R1754 ,R1773	RS1/16S304J
R1447 ,R1626 ,R1691 ,R1699 ,R1707	RS1/16S333J
R1715 ,R1723	RS1/16S333J
R1520 ,R1757	RS1/16S334J

R1491 ,R1526 ,R1561	RS1/16S363J
R1759	RS1/16S364J
R1486 ,R1678	RS1/16S394J
R1485	RS1/16S433J
R1409 -R1416	RS1/16S470J

Mark	No.	Description	Part No.
	R1671 ,R1696 ,R1704 ,R1712 ,R1720		RS1/16S471J
	R1728		RS1/16S471J
	R1441		RS1/16S473J
	R1760		RS1/16S474J
	R1423		RS1/16S512J
	R1446 ,R1630 -R1632 ,R1693 -R1695		RS1/16S562J
	R1701 -R1703		RS1/16S562J
	R1488 ,R1523 ,R1558 ,R1770		RS1/16S563J
	R1741		RS1/16S564J
	R1402 ,R1456		RS1/16S622J
	R1473		RS1/16S623J
	R1749		RS1/16S682J
	R1445 ,R1673 ,R1675		RS1/16S684J



CONNECTOR ASSY

OTHERS

J1801 ,J1802	JUMPER WIRE	D15A15-100-2651
CN1803,CN1804	15P SOCKET	KP200IA15L



FRONT CONTROL ASSY

SWITCHES AND RELAYS

S5001 -S5008	ASG1034
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CAPACITORS

C5003	CEV101M6R3
C5004 ,C5005	CKSQYF103Z50

RESISTORS

R5014	RS1/16S101J
R5012 ,R5019	RS1/16S102J
R5015	RS1/16S181J
R5018	RS1/16S222J
R5016	RS1/16S301J

R5013	RS1/16S470J
R5017	RS1/16S561J
R5020	RS1/16S622J

OTHERS

J5001	7P HOUSING WIRE	ADX2500
CN5001	PLUG 8-P	KM250MA8



LED DPO ASSY

SEMICONDUCTORS

Q5001 ,Q5005	2SA1162
Q5002 -Q5004	2SC2712
D5002	1SS181
D5008	AEL1176
D5007	AEL1177

D5006	NSPWF50S-8038
PC5001	P1241-09

CAPACITORS

C5001	CEV100M16
C5002	CEV330M25

RESISTORS

R5001	RD1/2LMF820J
R5011	RS1/16S102J
R5035 ,R5036	RS1/16S103J
R5005	RS1/16S152J
R5002 ,R5003	RS1/16S222J

R5061 ,R5062 ,R5064 ,R5065	RS1/16S223J
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Mark	No.	Description	Part No.
	R5007		RS1/16S273J
	R5010		RS1/16S334J
	R5008		RS1/16S562J
	R5004		RS1/2S821J
	VR5001		VRTS6VS473

Other Resistors

RS1/10S□□□□

OTHERS

5001	DPO HOLDER	AMR2294
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FRONT INPUT ASSY

SEMICONDUCTORS

Q5041 ,Q5042	2SC2712
D5041 ,D5042	RD15MB

CAPACITORS

C5043 ,C5044	CEV1R0M50
C5041	CEV470M16
C5042 ,C5045	CKSQYF103Z50

RESISTORS

R5043	RD1/4LMF101J
R5052 ,R5053	RS1/16S221J
R5054 ,R5055	RS1/16S222J
R5046 ,R5049 -R5051	RS1/16S473J
R5047 ,R5048	RS1/16S474J

R5041 ,R5044 ,R5045	RS1/16S750J
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OTHERS

CN5042	PINJACK(3P) WITH SIN	AKB1261
CN5041	PLUG 12-P	KM250MA13



SR ASSY

CAPACITORS

C5072	CCSQSL121J50
C5071	CEV101M6R3

RESISTORS

R5071	RS1/16S102J
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OTHERS

CN5071	PLUG 4-P	KM250MA4B
X5071		GP1U28X



POWER SW ASSY

SWITCHES AND RELAYS

S5081	ASG1084
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OTHERS

CN5081	PLUG 3-P	KM250MA3
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SR BNC ASSY

SEMICONDUCTORS

Q5023	2SA1162
Q5021 ,Q5022 ,Q5024	2SC2712
D5021 ,D5022 ,D5024	1SS352
D5023	RD6.8MB

CAPACITORS

C5024	CEV470M6R3
C5021 ,C5023	CKSQYF103Z50
C5022	CKSQYF472Z50

RESISTORS

R5027 ,R5033	RS1/16S101J
R5021 ,R5031	RS1/16S102J
R5023 ,R5028	RS1/16S103J
R5024 -R5026 ,R5030 ,R5032	RS1/16S223J
R5029	RS1/16S224J

PRO-700HD

Mark	No.	Description	Part No.
	R5022		RS1/16S472J
OTHERS			
	J5025	3P HOUSING WIRE	ADX2494
	J5024	3P HOUSING WIRE	ADX2499
	CN5021	JACK	AKN-209
	5022	CONNECTOR	AKX1002
	CN5023	PLUG 4-P	KM250MA4B

N AV I/O ASSY

SEMICONDUCTORS

IC6403	CXA1315M
IC6001	CXA2069Q
IC6401,IC6402	MC14066BF
IC6003	NJM2246M
IC6201-IC6203	TC74HC4053AF
Q6004 ,Q6012 ,Q6014 ,Q6015	2SA1162
Q6017 -Q6019 ,Q6022 ,Q6024 ,Q6025	2SA1162
Q6036 ,Q6038 -Q6040 ,Q6201	2SA1162
Q6203 ,Q6204 ,Q6206 ,Q6208 ,Q6210	2SA1162
Q6213 -Q6221 ,Q6223 ,Q6227	2SA1162
Q6229 ,Q6230 ,Q6404 ,Q6410 ,Q6412	2SA1162
Q6414 -Q6416	2SA1162
Q6001 -Q6003 ,Q6005 -Q6011 ,Q6013	2SC2712
Q6020 ,Q6021 ,Q6023 ,Q6027 -Q6033	2SC2712
Q6037 ,Q6041 -Q6047 ,Q6233 -Q6235	2SC2712
Q6238 -Q6261 ,Q6403 ,Q6405 -Q6409	2SC2712
Q6411 ,Q6413	2SC2712
Q6202 ,Q6205 ,Q6207 ,Q6209	2SC4213
Q6211 ,Q6212 ,Q6228 ,Q6231 ,Q6232	2SC4213
D6405 ,D6411 -D6413	1SS184
D6001 -D6022 ,D6024 ,D6025	1SS226
D6030 -D6032 ,D6035 -D6037	1SS226
D6201 -D6209 ,D6401 -D6404 ,D6406	1SS226
D6414 ,D6415	1SS226
D6023 ,D6033 ,D6034 ,D6039 ,D6040	1SS352
D6210 -D6215 ,D6407 ,D6408 ,D6410	1SS352
D6409	RD3.6MB

CAPACITORS

C6006 ,C6065 ,C6068 ,C6086 ,C6090	CEV100M16
C6228 ,C6251 ,C6260	CEV100M16
C6060 ,C6063 ,C6411 ,C6412	CEV101M6R3
C6058 ,C6062	CEV102M6R3
C6002 ,C6003 ,C6009 -C6014	CEV1R0M50
C6026 ,C6027 ,C6031 ,C6032	CEV1R0M50
C6036 ,C6037 ,C6042 ,C6044 -C6046	CEV1R0M50
C6084 ,C6085 ,C6406 ,C6409 ,C6410	CEV1R0M50
C6015 -C6017 ,C6024 ,C6028 ,C6029	CEV220M16
C6033 ,C6034 ,C6067 ,C6083 ,C6088	CEV220M16
C6092 ,C6094 ,C6201 -C6206	CEV220M16
C6208 -C6210 ,C6212 -C6217	CEV220M16
C6225 -C6227 ,C6262	CEV220M16
C6001 ,C6004 ,C6018 ,C6020 ,C6057	CEV470M16
C6074 ,C6076 ,C6077 ,C6079 ,C6080	CEV470M16
C6219 -C6222 ,C6235 ,C6237 ,C6242	CEV470M16
C6244 ,C6257 ,C6405 ,C6407 ,C6408	CEV470M16
C6414	CEV470M16
C6007 ,C6066 ,C6069 ,C6087 ,C6091	CEV4R7M35

Mark	No.	Description	Part No.
	C6229 ,C6252 ,C6259		CEV4R7M35
	C6019 ,C6025 ,C6030 ,C6035		CEVNPR10M50
	C6041 ,C6043 ,C6048		CEVR47M50
	C6059 ,C6061		CKSQYB332K50
	C6005 ,C6021 -C6023 ,C6038 -C6040		CKSQYF103Z50
	C6056 ,C6064 ,C6071 -C6073 ,C6075		CKSQYF103Z50
	C6078 ,C6081 ,C6082 ,C6089 ,C6093		CKSQYF103Z50
	C6207 ,C6211 ,C6218 ,C6223 ,C6224		CKSQYF103Z50
	C6231 -C6234 ,C6236 ,C6238 -C6241		CKSQYF103Z50
	C6243 ,C6245 -C6250 ,C6254 -C6256		CKSQYF103Z50
	C6258 ,C6261 ,C6401 -C6404 ,C6413		CKSQYF103Z50

RESISTORS

R6076	RD1/2LMF1R0J
R6069	RD1/4LMF270J
R6394 ,R6395 ,R6468 ,R6475 ,R6476	RS1/16S0R0J
R6520	RS1/16S0R0J
R6112 ,R6114 ,R6129 ,R6148 ,R6151	RS1/16S101J
R6165 ,R6173 ,R6176 ,R6209 ,R6210	RS1/16S101J
R6212 ,R6213 ,R6215 ,R6216	RS1/16S101J
R6235 ,R6236 ,R6238 ,R6239	RS1/16S101J
R6241 ,R6242 ,R6252 -R6254	RS1/16S101J
R6267 -R6269 ,R6295 ,R6298 ,R6301	RS1/16S101J
R6312 ,R6322 ,R6324 ,R6326 ,R6328	RS1/16S101J
R6336 ,R6338 ,R6345 ,R6347 ,R6349	RS1/16S101J
R6351 ,R6359 ,R6361 ,R6370	RS1/16S101J
R6437 -R6452 ,R6455 ,R6457 -R6459	RS1/16S101J
R6040 ,R6143 ,R6155 ,R6172	RS1/16S102J
R6177 ,R6178 ,R6188 ,R6197 ,R6315	RS1/16S102J
R6373 ,R6381 ,R6466	RS1/16S102J
R6005 ,R6044 ,R6141 ,R6145 ,R6186	RS1/16S103J
R6190 ,R6195 ,R6199 ,R6374 -R6378	RS1/16S103J
R6414 ,R6454 ,R6456	RS1/16S103J
R6004 ,R6006 ,R6036 ,R6043 ,R6045	RS1/16S104J
R6139 ,R6152 ,R6184 ,R6193	RS1/16S104J
R6261 -R6266 ,R6309 ,R6321 ,R6323	RS1/16S104J
R6325 ,R6327 ,R6335 ,R6337 ,R6344	RS1/16S104J
R6346 ,R6348 ,R6350 ,R6358 ,R6360	RS1/16S104J
R6367 ,R6380 ,R6421 ,R6422 ,R6470	RS1/16S104J
R6274	RS1/16S122J
R6207 ,R6223 -R6233 ,R6256 ,R6258	RS1/16S123J
R6260	RS1/16S123J
R6294 ,R6297 ,R6300	RS1/16S152J
R6055 ,R6057 ,R6110 ,R6111	RS1/16S153J
R6127 ,R6128 ,R6217 ,R6219 ,R6221	RS1/16S153J
R6243 ,R6245 ,R6247 ,R6303 ,R6305	RS1/16S153J
R6307	RS1/16S153J
R6007 ,R6008 ,R6046 ,R6047	RS1/16S181J
R6423 ,R6424	RS1/16S181J
R6208 ,R6313 ,R6371	RS1/16S182J
R6056 ,R6058 ,R6166 ,R6168 ,R6310	RS1/16S183J
R6368 ,R6434	RS1/16S183J
R6011 ,R6013 ,R6020 -R6026	RS1/16S221J
R6029 -R6033 ,R6037 ,R6052 ,R6053	RS1/16S221J
R6067 ,R6075 ,R6087 ,R6088 ,R6090	RS1/16S221J
R6094 ,R6103 ,R6117 ,R6119 ,R6140	RS1/16S221J
R6149 ,R6167 ,R6169 -R6171 ,R6174	RS1/16S221J

Mark	No.	Description	Part No.
	R6185 ,R6194 ,R6383 ,R6415		RS1/16S221J
	R6426 ,R6427 ,R6460 ,R6461		RS1/16S221J
	R6009 ,R6010 ,R6041 ,R6050 ,R6051		RS1/16S222J
	R6054 ,R6077 -R6082 ,R6137 ,R6138		RS1/16S222J
	R6150 ,R6156 ,R6175 ,R6211 ,R6214		RS1/16S222J
	R6218 ,R6220 ,R6222 ,R6234 ,R6237		RS1/16S222J
	R6240 ,R6244 ,R6246 ,R6248 ,R6304		RS1/16S222J
	R6306 ,R6308 ,R6417 ,R6419		RS1/16S222J
	R6109 ,R6121 -R6124 ,R6146 ,R6147		RS1/16S223J
	R6161 -R6164 ,R6191 ,R6192 ,R6200		RS1/16S223J
	R6255 ,R6257 ,R6259 ,R6314 ,R6372		RS1/16S223J
	R6384 ,R6385 ,R6407 -R6410		RS1/16S223J
	R6428 -R6431 ,R6433 ,R6435 ,R6436		RS1/16S223J
	R6059 ,R6068 ,R6273 ,R6343 ,R6366		RS1/16S332J
	R6420 ,R6425		RS1/16S332J
	R6285		RS1/16S393J
	R6275 -R6280 ,R6329 -R6334		RS1/16S470J
	R6352 -R6357		RS1/16S470J
	R6339 -R6341 ,R6362 -R6364		RS1/16S471J
	R6118 ,R6120 ,R6144 ,R6189 ,R6198		RS1/16S472J
	R6286 ,R6382 ,R6462 -R6464 ,R6472		RS1/16S472J
	R6474		RS1/16S472J
	R6411 ,R6413 ,R6432		RS1/16S473J
	R6001 ,R6002 ,R6062 ,R6063		RS1/16S474J
	R6070 ,R6071 ,R6135 ,R6136		RS1/16S474J
	R6284		RS1/16S513J
	R6034 ,R6035 ,R6125 ,R6126		RS1/16S560J
	R6039 ,R6142 ,R6154 ,R6187 ,R6196		RS1/16S562J
	R6311 ,R6369 ,R6379 ,R6465		RS1/16S562J
	R6412		RS1/16S563J
	R6012 ,R6014 -R6017 ,R6019		RS1/16S622J
	R6027 ,R6028 ,R6083 -R6086		RS1/16S622J
	R6133 ,R6134		RS1/16S622J
	R6270 -R6272 ,R6342 ,R6365		RS1/16S681J
	R6038 ,R6153		RS1/16S682J
	R6018 ,R6060 ,R6061 ,R6064 -R6066		RS1/16S750J
	R6072 -R6074 ,R6182 ,R6201 -R6206		RS1/16S750J
	R6249 -R6251		RS1/16S750J
	R6296 ,R6299 ,R6302		RS1/16S820J
	R6048 ,R6049 ,R6181 ,R6183 ,R6416		RS1/16S821J
	R6418		RS1/16S821J
	Other Resistors		RS1/10S□□□J

OTHERS

CN6006	PINJACK(6P) WITH SIN	AKB1271
CN6007	PINJACK(6P) WITH SIN	AKB1272
CN6010	PINJACK(6P)	AKB1273
CN6202	PINJACK(6P)	AKB1274
CN6404	PLUG 32-P	AKM1154
CN6201	PLUG 44-P	AKM1155
CN6002	L-PLUG(10P)	KM250MA10L
CN6204	L-PLUG(11P)	KM250MA11L
CN6001	PLUG 3-P	KM250MA3L
CN6004	PLUG 4-P	KM250MA4LR
CN6403	PLUG 6-P	KM250MA6L
CN6003	L-PLUG(8P)	KM250MA8L

Mark	No.	Description	Part No.
	A	TUNER u-COM ASSY	
		SEMICONDUCTORS	
	IC2204		24LC32A
	IC2701		CXA1734S
	IC2208,IC2702		MC14066BF
	IC2206		PD0264AM
	IC2201		PD5462B9
	IC2202		PD5463B9
	IC2203		PD5497B9
	IC2209,IC2210,IC2703,IC2704		PQ20VZ1U
	IC2801,IC2802		PQ20VZ1U
	IC2205,IC2207		PST9146N
	IC2211,IC2212		TC74HC4053AF
	Q2202 ,Q2204 ,Q2206 ,Q2208 ,Q2210		2SA1162
	Q2212 ,Q2218 ,Q2701 ,Q2706 ,Q2710		2SA1162
	Q2713 ,Q2715 ,Q2804 ,Q2805		2SA1162
	Q2201 ,Q2203 ,Q2205 ,Q2207 ,Q2209		2SC2712
	Q2211 ,Q2213 -Q2217 ,Q2219 -Q2221		2SC2712
	Q2223 -Q2229 ,Q2702 -Q2705		2SC2712
	Q2707 ,Q2708 ,Q2711 ,Q2712 ,Q2714		2SC2712
	Q2716 ,Q2717 ,Q2801 -Q2803 ,Q2806		2SC2712
	Q2808 -Q2810		2SC2712
	Q2222		2SJ460
	D2313 -D2315		1SS184
	D2205 ,D2207 ,D2210 -D2260		1SS226
	D2262 -D2264 ,D2267 -D2297		1SS226
	D2299 ,D2300 ,D2306 ,D2310 -D2312		1SS226
	D2321 ,D2325 -D2343 ,D2703 ,D2704		1SS226
	D2707 ,D2801 ,D2802 ,D2805		1SS226
	D2201 -D2204 ,D2303 ,D2304		1SS352
	D2307 -D2309 ,D2318 ,D2319		1SS352
	D2261 ,D2265 ,D2266 ,D2323		RD15MB
	D2705 ,D2706		RD15MB
	D2206 ,D2208 ,D2209 ,D2298		RD6.8MB
	D2301 ,D2302 ,D2305 ,D2316 ,D2317		RD6.8MB
	D2709 ,D2804		UDZ33B
		COILS AND FILTERS	
	L2201 ,L2202		ATC1037
	L2701 -L2705 ,L2801 -L2804		LCTA2R2J3225
	L2203		LCTA8R2J3225
	F2706 ,F2707		VTF1097
		CAPACITORS	
	C2710 C= 3.3,V(DC)= 50,A		ACH1128
	C2704 C= 10,V(DC)= 50,A		ACH1129
	C2732 ,C2822		CCSQCH101J50
	C2238		CCSQCH120J50
	C2223 ,C2233 ,C2282 ,C2283		CCSQCH150J50
	C2237		CCSQCH390J50
	C2727		CCSQCH470J50
	C2219 ,C2227 ,C2250 ,C2251		CCSQSL221J50
	C2811		CCSQSL470J50
	C2201 -C2204 ,C2215 ,C2702 ,C2703		CEAT100M50
	C2725 ,C2729 ,C2737 ,C2738		CEAT100M50
	C2740 ,C2741 ,C2744 ,C2746 ,C2747		CEAT100M50
	C2802 -C2804 ,C2815 ,C2818 ,C2821		CEAT100M50
	C2206 ,C2216 ,C2224 ,C2234 ,C2239		CEAT101M10

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Mark	No.	Description	Part No.
	C2241 ,C2252 ,C2254 ,C2260 ,C2265	CEAT101M10	
	C2212	CEAT101M16	
	C2717	CEAT101M25	
	C2218 ,C2226 ,C2264 ,C2705 ,C2709	CEAT1R0M50	
	C2735 ,C2814	CEAT331M16	
	C2208	CEAT3R3M50	
	C2245 ,C2262	CEAT470M10	
	C2258	CEAT470M16	
	C2720 ,C2721 ,C2723 ,C2801 ,C2808	CEAT471M16	
	C2810	CEAT471M16	
	C2211	CEAT471M25	
	C2207 ,C2701 ,C2706 ,C2707	CEAT4R7M50	
	C2714 ,C2716 ,C2718	CEAT4R7M50	
	C2222 ,C2230 ,C2249	CEATR10M50	
	C2236 ,C2711	CEATR47M50	
	C2214 ,C2256 ,C2257	CFTXA105J50	
	C2708	CFTXA224J50	
	C2221 ,C2229	CKSQYB561K50	
	C2232 ,C2244 ,C2247 ,C2728 ,C2748	CKSQYF102Z50	
	C2807 ,C2812	CKSQYF102Z50	
	C2205 ,C2209 ,C2213 ,C2217 ,C2225	CKSQYF103Z50	
	C2231 ,C2235 ,C2240 ,C2242 ,C2243	CKSQYF103Z50	
	C2246 ,C2248 ,C2253 ,C2255 ,C2259	CKSQYF103Z50	
	C2261 ,C2263 ,C2284 ,C2719 ,C2722	CKSQYF103Z50	
	C2724 ,C2726 ,C2730 ,C2731 ,C2734	CKSQYF103Z50	
	C2736 ,C2739 ,C2745 ,C2805 ,C2806	CKSQYF103Z50	
	C2809 ,C2816 ,C2817 ,C2819	CKSQYF103Z50	
	C2210	CKSQYF473Z50	
	C2220 ,C2228	CQMA102J50	
	C2713	CQMA272J50	
	C2712	CQMA473J50	

RESISTORS

R2763 ,R2830	RD1/2MMF271J
R2792 ,R2831	RD1/4MUF332J
R2551 ,R2552 ,R2764 ,R2773 ,R2828	RN1/16SE1001D
R2837	RN1/16SE1001D
R2550 ,R2553 ,R2772 ,R2836	RN1/16SE3001D
R2771 ,R2834	RN1/16SE6201D
R2235 ,R2417 ,R2520 ,R2521	RS1/16S0R0J
R2531 ,R2532 ,R2534 ,R2573 ,R2611	RS1/16S0R0J
R2221 ,R2228 ,R2258 ,R2264 -R2279	RS1/16S101J
R2284 -R2286 ,R2289 -R2292	RS1/16S101J
R2294 -R2297 ,R2299 ,R2300	RS1/16S101J
R2302 -R2306 ,R2308 -R2311 ,R2313	RS1/16S101J
R2315 ,R2317 -R2325 ,R2327	RS1/16S101J
R2331 ,R2332 ,R2335 ,R2337 -R2345	RS1/16S101J
R2347 -R2349 ,R2356 -R2358 ,R2361	RS1/16S101J
R2363 ,R2373 ,R2374 ,R2376	RS1/16S101J
R2379 ,R2380 ,R2411 ,R2412	RS1/16S101J
R2425 -R2429 ,R2434 ,R2435	RS1/16S101J
R2445 ,R2446 ,R2449 -R2451 ,R2453	RS1/16S101J
R2458 -R2462 ,R2465 -R2473 ,R2485	RS1/16S101J
R2489 ,R2490 ,R2493 ,R2495 -R2497	RS1/16S101J
R2499 ,R2500 ,R2513 ,R2514	RS1/16S101J
R2522 -R2528 ,R2535 ,R2542 -R2545	RS1/16S101J
R2562 ,R2564 ,R2566 ,R2568 ,R2701	RS1/16S101J

R2744 ,R2745 ,R2750 -R2752 ,R2757	RS1/16S101J
R2759 ,R2765 ,R2767 ,R2819 ,R2829	RS1/16S101J
R2832 ,R2833 ,R2843	RS1/16S101J
R2230 ,R2234 ,R2237 ,R2254 ,R2259	RS1/16S102J
R2263 ,R2282 ,R2301 ,R2330 ,R2334	RS1/16S102J
R2359 ,R2360 ,R2409 ,R2416 ,R2511	RS1/16S102J
R2731 ,R2736 ,R2737 ,R2816	RS1/16S102J
R2840 ,R2841	RS1/16S102J
R2204 ,R2208 ,R2225 ,R2229 ,R2240	RS1/16S103J
R2243 ,R2280 ,R2281 ,R2288 ,R2293	RS1/16S103J
R2298 ,R2307 ,R2314 ,R2326 ,R2328	RS1/16S103J
R2346 ,R2353 ,R2355 ,R2366 ,R2368	RS1/16S103J
R2381 -R2408 ,R2418 ,R2447 ,R2448	RS1/16S103J
R2454 -R2457 ,R2463 ,R2480 ,R2481	RS1/16S103J
R2483 ,R2486 ,R2487 ,R2491 ,R2492	RS1/16S103J
R2498 ,R2501 -R2503 ,R2505 -R2509	RS1/16S103J
R2512 ,R2529 ,R2530 ,R2554 ,R2555	RS1/16S103J
R2558 ,R2741 ,R2742 ,R2749 ,R2768	RS1/16S103J
R2226 ,R2239	RS1/16S104J
R2257 ,R2262 ,R2333	RS1/16S105J
R2707 ,R2807	RS1/16S123J
R2724 ,R2812	RS1/16S152J
R2233 ,R2255 ,R2260 ,R2350 -R2352	RS1/16S153J
R2369 ,R2372 ,R2415 ,R2479 ,R2727	RS1/16S153J
R2811	RS1/16S153J
R2244	RS1/16S155J
R2430 ,R2431 ,R2537 ,R2539 ,R2541	RS1/16S182J
R2756 ,R2808 ,R2844	RS1/16S182J
R2246 ,R2436 ,R2440 ,R2477 ,R2708	RS1/16S183J
R2728 ,R2739 ,R2746 ,R2760 ,R2766	RS1/16S183J
R2806 ,R2814 ,R2827 ,R2842	RS1/16S183J
R2718	RS1/16S204J
R2213 -R2215 ,R2220 ,R2245 ,R2253	RS1/16S221J
R2283 ,R2287 ,R2367 ,R2437 ,R2443	RS1/16S221J
R2476 ,R2510 ,R2704 ,R2709 -R2711	RS1/16S221J
R2720 ,R2721 ,R2723 ,R2730 ,R2735	RS1/16S221J
R2747 ,R2779 -R2781 ,R2801 ,R2802	RS1/16S221J
R2809 ,R2817 ,R2821 ,R2822 ,R2835	RS1/16S221J
R2839	RS1/16S221J
R2242 ,R2420 ,R2421 ,R2432 ,R2433	RS1/16S222J
R2567 ,R2717	RS1/16S222J
R2201 -R2203 ,R2205 -R2207	RS1/16S223J
R2209 -R2211 ,R2216 -R2218	RS1/16S223J
R2249 -R2251 ,R2438 ,R2475	RS1/16S223J
R2516 -R2519 ,R2729 ,R2775 -R2778	RS1/16S223J
R2815	RS1/16S223J
R2227	RS1/16S224J
R2312 ,R2316 ,R2336 ,R2362	RS1/16S272J
R2364 ,R2365 ,R2546 ,R2547 ,R2702	RS1/16S272J
R2705 ,R2818 ,R2823	RS1/16S272J
R2248 ,R2442	RS1/16S273J
R2733	RS1/16S302J
R2212 ,R2219 ,R2241 ,R2252 ,R2504	RS1/16S332J
R2536 ,R2538 ,R2540 ,R2732 ,R2743	RS1/16S332J
R2748 ,R2754 ,R2782	RS1/16S332J

Mark	No.	Description	Part No.
	R2247 ,R2419 ,R2441		RS1/16S333J
	R2223 ,R2716		RS1/16S392J
	R2439 ,R2740 ,R2755		RS1/16S393J
	R2714		RS1/16S433J
	R2256 ,R2261 ,R2561 ,R2563 ,R2565		RS1/16S471J
	R2712 ,R2713 ,R2719 ,R2761 ,R2805		RS1/16S471J
	R2222 ,R2231 ,R2232 ,R2238 ,R2354		RS1/16S472J
	R2378 ,R2410 ,R2413 ,R2414		RS1/16S472J
	R2422 ,R2423 ,R2556 ,R2557 ,R2734		RS1/16S472J
	R2838		RS1/16S472J
	R2444 ,R2478 ,R2774		RS1/16S473J
	R2329		RS1/16S512J
	R2725 ,R2810		RS1/16S561J
	R2370 ,R2371 ,R2375 ,R2377 ,R2726		RS1/16S562J
	R2813		RS1/16S562J
	R2715		RS1/16S623J
	R2703 ,R2706 ,R2803 ,R2804		RS1/16S681J
	R2452 ,R2722 ,R2820		RS1/16S682J
	R2224		RS1/16S683J
	R2474		RS1/16S823J
	R2236 ,R2424		RS1MMF3R9J
	VR2701,VR2801 R=470 ,W= 0.1,MAKER=	ACP1039	
	Other Resistors	RS1/10S□□□□J	

OTHERS

2704 ,2705	PULG CORD	ADE1171
J2703	10P HOUSING WIRE	ADX2496
J2702	4P HOUSING WIRE	ADX2497
CN2203	PLUG 32-P	AKM1154
CN2202	PLUG 44-P	AKM1155
K2201 -K2237 ,K2241	TEST PIN	AKX9002
X2201 -X2203	CERAMIC RESONATOR (8.00MHz)	ASS1015
CN2204	L-PLUG(10P)	KM250MA10L
CN2213	PLUG 3-P	KM250MA3LR
CN2205	PLUG 4-P	KM250MA4L
CN2207	PLUG 4-P	KM250MA4LB
CN2206	L-PLUG(8P)	KM250MA8LB
CN2209	L-PLUG(8P)	KM250MA8LR

B VIDEO ASSY

SEMICONDUCTORS

IC5254	CXA1315P
IC5255	MC14577CP
IC5601,IC5602	NJM7805FA
IC5603,IC5604	NJM7809FA
IC5251	TA1276AN
IC5253	TC74HC4053AP
IC5605	TC74HC4066AP
IC5252	TC74HC4538AP
Q5251 -Q5255 ,Q5260 -Q5264 ,Q5266	2SA933S
Q5268 ,Q5270 ,Q5276 ,Q5277	2SA933S
Q5285 -Q5287 ,Q5290 -Q5296 ,Q5301	2SA933S
Q5305 ,Q5306 ,Q5314 ,Q5318 ,Q5604	2SA933S
Q5608 ,Q5609	2SA933S
Q5256 ,Q5257 ,Q5259 ,Q5265	2SC1740S
Q5272 -Q5275 ,Q5278 -Q5284	2SC1740S

Mark	No.	Description	Part No.
	Q5288 ,Q5289 ,Q5297 -Q5299 ,Q5302	2SC1740S	
	Q5307 -Q5310 ,Q5313 ,Q5315 -Q5317	2SC1740S	
	Q5319 ,Q5320 ,Q5602 ,Q5603	2SC1740S	
	Q5605 -Q5607 ,Q5610 ,Q5612	2SC1740S	
	Q5267 ,Q5269 ,Q5271	2SC2235	
	Q5601	2SD880	
	Q5611	2SK117	
	D5251 -D5283 ,D5293 -D5297	1SS254	
	D5307 -D5312 ,D5314 -D5319	1SS254	
	D5329 -D5356 ,D5601 -D5618	1SS254	
	D5623 -D5658 ,D5667 ,D5668	1SS254	
	D5673 -D5681 ,D5688 ,D5689	1SS254	
	D5692 ,D5693	1SS254	
	D5298 -D5306 ,D5320 -D5328 ,D5619	MTZJ11	
	D5621 ,D5659 ,D5666	MTZJ11	
	D5682	MTZJ12C	
	D5620	MTZJ15	
	D5284 -D5292	S5688G	

COILS AND FILTERS

L5602 -L5605	ATH-059
L5601	ATX1008
L5251	LAU100J
L5253	LAU1R0K
L5606	LAU220J
L5252	LAU4R7J

CAPACITORS

C5638	CCCCH221J50
C5259	CCCCH271J50
C5298 ,C5299	CCCCH4R0C50
C5629	CCCSL101J50
C5332	CCCSL150J50
C5296	CCCSL151J50
C5322 ,C5334	CCCSL180J50
C5288	CCCSL220J50
C5636	CCCSL221J50
C5295	CCCSL2R0C50
C5329 ,C5330 ,C5637	CCCSL330J50
C5287 ,C5337 ,C5338	CCCSL560J50
C5283	CEAS6R8M50
C5269 ,C5281 ,C5282 ,C5297 ,C5321	CEAT100M50
C5336	CEAT100M50
C5251 ,C5255 ,C5261 ,C5305 ,C5312	CEAT101M10
C5314 ,C5324 ,C5326 ,C5328 ,C5603	CEAT101M10
C5605	CEAT101M10
C5620	CEAT101M16
C5290 ,C5623 ,C5624	CEAT101M25
C5601	CEAT102M10
C5274	CEAT1R0M50
C5301 -C5304 ,C5331 ,C5625 ,C5628	CEAT220M50
C5270	CEAT221M10
C5319	CEAT221M16
C5309	CEAT221M25
C5615 ,C5619	CEAT222M16
C5272	CEAT2R2M50
C5613	CEAT470M16

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Mark	No.	Description	Part No.
	C5292 ,C5632 ,C5634		CEAT470M25
	C5607 ,C5608		CEAT471M10
	C5618 ,C5622		CEAT471M16
	C5285 ,C5627		CEAT4R7M50
	C5257 ,C5258 ,C5271 ,C5273 ,C5284		CEATR10M50
	C5286		CEATR47M50
	C5335		CKCYB391K50
	C5252 ,C5254 ,C5262 ,C5278 ,C5289		CKCYF103Z50
	C5293 ,C5294 ,C5306 ,C5310 ,C5311		CKCYF103Z50
	C5313 ,C5316 -C5318 ,C5320 ,C5325		CKCYF103Z50
	C5327 ,C5602 ,C5604 ,C5606		CKCYF103Z50
	C5609 -C5612 ,C5614 ,C5616 ,C5617		CKCYF103Z50
	C5621 ,C5626 ,C5631 ,C5633 ,C5635		CKCYF103Z50
	C5253 ,C5256		CQMA103J50
	C5263 -C5268 ,C5275 -C5277		CQMA104J50
	C5323		CQPA103J2A
	C5300		CQPA223J2A
	C5260		CQPA271J2A
RESISTORS			
	R5602		RD1/2MMF1R5J
	R5685		RD1/2MMF4R7J
	R5317 ,R5319 ,R5321 ,R5326 ,R5331		RD1/2PM100J
	R5336		RD1/2PM100J
	R5285 -R5287		RD1/2PM101J
	R5323 ,R5328 ,R5333		RD1/2PM821J
	R5294		RN1/4PC8200F
	R5295		RN1/4PC3301F
	R5297		RN1/4PC1202F
	R5298		RN1/4PC2201F
	R5646		RS1MMF2R7J
	R5645		RS1MMF3R3J
	R5374		RS1MMF3R9J
	R5644		RS2MMF8R2J
	R5601		RS3LMF5R6J
	VR5251 ,VR5252		VRTHS6VS223
	Other Resistors		RD1/4PU□□□J
OTHERS			
	CN5602-CN5604	SOCKET 32-P	AKP1185
	CN5605-CN5609	SOCKET 44-P	AKP1186
	CN5253	PLUG 10-P	KM250MA10R
	CN5251	PLUG 15-P	KM250MA15
	CN5601	PLUG 9-P	KM250MA9
	CN5252	PLUG 9-P	KM250MA9B
	5602	SCREW	PMZ30P100FZK
D SIGNAL ASSY			
SEMICONDUCTORS			
	IC7802		24LC08B(I)SN
	IC7003 ,IC7701 ,IC7702		HY514264BJC -50A
	IC7700		MA07132
	IC7004 ,IC7503 -IC7505 ,IC7601 -IC7603		MB40C568HPFV
	IC7001 ,IC7006 ,IC7101 ,IC7102 ,IC7302		MC14577CF
	IC7501 ,IC7604 ,IC7707 ,IC7708		MC14577CF
	IC7301 ,IC7304 ,IC7500 ,IC7605		MM1031XM
	IC7103 ,IC7303 ,IC7305 ,IC7306		NJM2233BM
	IC7710		NJM2283M
	IC7800		PD5499A

Mark	No.	Description	Part No.
	IC7007 ,IC7105		PQ05RD1B
	IC7106		PQ09RD1B
	IC7008 ,IC7709 ,IC7803		PQ20VZ1U
	IC7801		PST9146N
	IC7100 ,IC7300		TA1270AF
	IC7502 ,IC7600		TC74HC4066AF
	IC7705		TC74HCT32AF
	IC7009		TC7S66FU
	IC7005 ,IC7706		TC7SET08FU
	IC7507		TC7W04FU
	IC7307		TC90A45F
	IC7703 ,IC7704		TLC2932IPW
	IC7002		UPD64081BGF -3BA
	Q7002 ,Q7003 ,Q7005 ,Q7007 ,Q7008		2SA1162
	Q7109 -Q7112 ,Q7121 ,Q7128 -Q7131		2SA1162
	Q7311 ,Q7316 ,Q7318 ,Q7319		2SA1162
	Q7323 -Q7325 ,Q7503 -Q7505		2SA1162
	Q7603 -Q7605 ,Q7700 -Q7705		2SA1162
	Q7001 ,Q7004 ,Q7006 ,Q7009		2SC2712
	Q7100 ,Q7101 ,Q7103 -Q7108		2SC2712
	Q7113 -Q7120 ,Q7122 ,Q7300 ,Q7301		2SC2712
	Q7303 -Q7310 ,Q7312 -Q7315 ,Q7317		2SC2712
	Q7320 -Q7322 ,Q7500 -Q7502		2SC2712
	Q7506 -Q7508 ,Q7600 -Q7602 ,Q7606		2SC2712
	Q7800 ,Q7801		2SC2712
	D7800 ,D7801		1SS184
	D7802 -D7807		1SS226
	D7500 ,D7501 ,D7808		1SS352
	D7300 ,D7301 ,D7700 -D7702		RD10MB
COILS AND FILTERS			
	F7500 -F7502 ,F7600 ,F7703 ,F7704		ATF1124
	F7001 ,F7004 ,F7700		ATF1127
	F7002 ,F7003 ,F7701 ,F7702		ATF1179
	DL7100		ATN1054
	L7704 ,L7705		ATX1035
	L7101 ,L7706		LCTA100J3225
	L7302		LCTA101J3225
	L7102		LCTA120J3225
	L7100 ,L7303		LCTA121J3225
	L7008 ,L7110 ,L7304 ,L7305 ,L7720		LCTA220J3225
	L7103		LCTA3R9J3225
	L7001		LCTA4R7J3225
	L7108 ,L7109 ,L7111 ,L7300 ,L7301		LCTA5R6J3225
	L7002 -L7007 ,L7500 ,L7502 ,L7503		QTL1013
	L7505 ,L7506 ,L7508 ,L7600		QTL1013
	L7602 ,L7603 ,L7605 ,L7606		QTL1013
	L7608 -L7634 ,L7707 ,L7711 -L7717		QTL1013
	L7721 -L7743 ,L7800 -L7804		QTL1013
	L7806 -L7810		QTL1013
	F7503 ,F7504 ,F7601 ,F7602		VTF1097
	F7800 -F7804		VTF1097
CAPACITORS			
	C7038 ,C7500 -C7502 ,C7509 ,C7512		CCSQCH101J50
	C7515 ,C7529 ,C7530 ,C7537		CCSQCH101J50
	C7600 -C7602 ,C7604 ,C7607 ,C7610		CCSQCH101J50
	C7702 -C7704 ,C7711 ,C7712 ,C7803		CCSQCH101J50
	C7153 ,C7340 ,C7361 ,C7363		CCSQCH120J50

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C7145 ,C7147		CCSQCH121J50		C7311 -C7317		CFHSP104J16
	C7357		CCSQCH180J50		C7810		CFHSP563J16
	C7355		CCSQCH181J50		C7804		CFHSQ103J16
	C7166 ,C7778 ,C7788		CCSQCH220J50		C7012 ,C7105 ,C7155 ,C7305		CKSQYB103K50
	C7806		CCSQCH220J50		C7805		CKSQYB223K50
	C7523 ,C7526 ,C7617 ,C7620		CCSQCH221J50		C7057		CKSQYB473K50
	C7002 ,C7362 ,C7364		CCSQCH270J50		C7163 ,C7348 ,C7350 ,C7352 -C7354		CKSQYF103Z50
	C7003 ,C7059 ,C7164 ,C7727 ,C7728		CCSQCH330J50		C7359 ,C7360 ,C7366 -C7369 ,C7371		CKSQYF103Z50
	C7760		CCSQCH330J50		C7503 ,C7504 ,C7508 ,C7531 ,C7603		CKSQYF103Z50
	C7148		CCSQCH331J50		C7640 ,C7737 ,C7738 ,C7800 ,C7802		CKSQYF103Z50
	C7356		CCSQCH390J50		C7001 ,C7004 -C7007 ,C7009 ,C7011		CKSQYF104Z50
	C7807		CCSQCH391J50		C7013 ,C7016 -C7024 ,C7027 ,C7029		CKSQYF104Z50
	C7015		CCSQCH471J50		C7031 ,C7033 ,C7035 -C7037 ,C7039		CKSQYF104Z50
	C7129 ,C7140		CCSQCH561J50		C7041 ,C7043 ,C7048 ,C7049 ,C7056		CKSQYF104Z50
	C7146		CCSQCH680J50		C7122 -C7124 ,C7127 ,C7131 ,C7134		CKSQYF104Z50
	C7365 ,C7370		CCSQCJ3R0C50		C7136 ,C7323 ,C7327 ,C7331 ,C7333		CKSQYF104Z50
	C7623		CCSQSH121J50		C7518 -C7522 ,C7524 ,C7525		CKSQYF104Z50
	C7101 ,C7301		CCSQSL222J50		C7527 ,C7528 ,C7533 -C7535 ,C7550		CKSQYF104Z50
	C7008		CCSQSL391J50		C7552 ,C7553 ,C7555 ,C7556 ,C7558		CKSQYF104Z50
	C7336 ,C7751		CEAT101M16		C7613 -C7616 ,C7618 ,C7619		CKSQYF104Z50
	C7729 ,C7750		CEAT102M6R3		C7621 ,C7622 ,C7624 ,C7626 -C7628		CKSQYF104Z50
	C7104		CEAT471M10		C7633 ,C7644 ,C7646 ,C7647		CKSQYF104Z50
	C7752		CEAT471M16		C7649 ,C7650 ,C7652 ,C7700 ,C7701		CKSQYF104Z50
	C7010 ,C7108 ,C7110 ,C7125		CEV100M16		C7706 ,C7710 ,C7714 ,C7716 ,C7723		CKSQYF104Z50
	C7308 -C7310 ,C7325 ,C7344 -C7347		CEV100M16		C7730 ,C7732 -C7734 ,C7736		CKSQYF104Z50
	C7545 ,C7707 ,C7713 ,C7743 ,C7744	CEV100M16			C7739 ,C7740 ,C7745 ,C7757		CKSQYF104Z50
	C7032 ,C7034 ,C7046 ,C7050 ,C7126	CEV101M6R3			C7761 -C7771 ,C7773 -C7777		CKSQYF104Z50
	C7159 ,C7326 ,C7532 ,C7536 ,C7541	CEV101M6R3			C7779 -C7782		CKSQYF104Z50
	C7625 ,C7629 ,C7632 ,C7705 ,C7715	CEV101M6R3					
	C7731 ,C7741 ,C7749 ,C7755 ,C7759	CEV101M6R3					
	C7809	CEV101M6R3					
	C7014 ,C7130 ,C7141 ,C7341 ,C7343	CEV1R0M50					
	C7546 ,C7641	CEV1R0M50					
	C7142 -C7144	CEV220M16					
	C7040 ,C7042 ,C7044	CEV221M10					
	C7102 ,C7103 ,C7302 ,C7303	CEV2R2M50					
	C7054 ,C7058 ,C7135 ,C7138 ,C7139	CEV470M16					
	C7154 ,C7157 ,C7158 ,C7160 -C7162	CEV470M16					
	C7304 ,C7332 ,C7335 ,C7349 ,C7351	CEV470M16					
	C7539 ,C7540 ,C7542 -C7544	CEV470M16					
	C7634 ,C7635 ,C7639 ,C7642 ,C7758	CEV470M16					
	C7808	CEV470M16					
	C7028 ,C7030 ,C7047 ,C7109 ,C7156	CEV470M6R3					
	C7337 -C7339 ,C7342 ,C7547 ,						
	C7643 ,C7756	CEV470M6R3					
	C7132 ,C7133 ,C7329 ,C7330 ,C7735	CEVNP100M16					
	C7742 ,C7746 ,C7747	CEVNP100M16					
	C7045	CEVNP1R0M50					
	C7505 -C7507 ,C7636 -C7638	CEVNP2R2M35					
	C7748	CEVNP470M6R3					
	C7128 ,C7328	CEVNP4R7M16					
	C7100 ,C7300	CEVR22M50					
	C7358	CEVR47M50					
	C7107 ,C7307	CFHS223J16					
	C7753 ,C7754	CFHS393J16					
	C7106 ,C7111 -C7117 ,C7306	CFHSP104J16					

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Mark	No.	Description	Part No.
	R7415 ,R7535 -R7537 ,R7615 -R7617	RS1/16S101J	
	R7715 ,R7730 ,R7735 ,R7740 ,R7747	RS1/16S101J	
	R7749 ,R7751 ,R7759 -R7761	RS1/16S101J	
	R7766 -R7770 ,R7800 ,R7803 -R7807	RS1/16S101J	
	R7821 -R7826 ,R7830 ,R7831	RS1/16S101J	
	R7871 -R7876	RS1/16S101J	
	R7005 ,R7009 ,R7016 ,R7023 ,R7026	RS1/16S102J	
	R7034 ,R7038 ,R7039 ,R7055 ,R7057	RS1/16S102J	
	R7107 ,R7108 ,R7134 ,R7145 ,R7147	RS1/16S102J	
	R7154 ,R7157 ,R7158 ,R7160 ,R7164	RS1/16S102J	
	R7172 ,R7175 ,R7178 ,R7204	RS1/16S102J	
	R7307 ,R7308 ,R7342 ,R7343 ,R7350	RS1/16S102J	
	R7371 ,R7374 ,R7382 -R7385	RS1/16S102J	
	R7388 -R7391 ,R7394 ,R7395 ,R7397	RS1/16S102J	
	R7401 ,R7403 ,R7404 ,R7411	RS1/16S102J	
	R7503 -R7505 ,R7509 ,R7510 ,R7538	RS1/16S102J	
	R7543 ,R7544 ,R7601 ,R7602 ,R7624	RS1/16S102J	
	R7626 ,R7629 ,R7700 -R7703 ,R7708	RS1/16S102J	
	R7721 ,R7725 ,R7726 ,R7744 ,R7745	RS1/16S102J	
	R7752 ,R7763 ,R7829 ,R7868 ,R7879	RS1/16S102J	
	R7887	RS1/16S102J	
	R7006 ,R7020 ,R7072 ,R7101 ,R7159	RS1/16S103J	
	R7185 ,R7188 ,R7194 ,R7230 ,R7232	RS1/16S103J	
	R7239 ,R7241 ,R7301 ,R7325 ,R7357	RS1/16S103J	
	R7360 ,R7366 ,R7410 ,R7827 ,R7828	RS1/16S103J	
	R7841 ,R7843 ,R7845 -R7867	RS1/16S103J	
	R7869 ,R7870 ,R7877 ,R7878 ,R7880	RS1/16S103J	
	R7883	RS1/16S103J	
	R7518 ,R7520 ,R7522 ,R7609 ,R7611	RS1/16S104J	
	R7613	RS1/16S104J	
	R7050 ,R7186 ,R7189 ,R7195 ,R7358	RS1/16S122J	
	R7361 ,R7367 ,R7762	RS1/16S122J	
	R7398	RS1/16S132J	
	R7162 ,R7170 ,R7205 ,R7207 ,R7506	RS1/16S152J	
	R7511 ,R7625 ,R7627	RS1/16S152J	
	R7163	RS1/16S153J	
	R7156	RS1/16S162J	
	R7010 ,R7011 ,R7146	RS1/16S182J	
	R7171	RS1/16S183J	
	R7533 ,R7534 ,R7755	RS1/16S220J	
	R7013 ,R7027 ,R7041 ,R7202 ,R7206	RS1/16S221J	
	R7242	RS1/16S221J	
	R7019 ,R7024 ,R7029 ,R7036 ,R7121	RS1/16S222J	
	R7125 ,R7127 ,R7139 ,R7142 ,R7190	RS1/16S222J	
	R7321 ,R7326 ,R7328 ,R7335 ,R7338	RS1/16S222J	
	R7362 ,R7369 ,R7712 ,R7717 ,R7729	RS1/16S222J	
	R7734 ,R7739 ,R7813	RS1/16S222J	
	R7138 ,R7201 ,R7524 ,R7526 ,R7529	RS1/16S223J	
	R7531 ,R7814 ,R7886	RS1/16S223J	
	R7014	RS1/16S224J	
	R7007 ,R7008 ,R7030 ,R7031	RS1/16S271J	
	R7048 ,R7049 ,R7105 ,R7106 ,R7122	RS1/16S271J	
	R7284 ,R7305 ,R7306 ,R7322 ,R7502	RS1/16S271J	
	R7600 ,R7731 ,R7736 ,R7741	RS1/16S271J	
	R7200 ,R7243 ,R7245 ,R7247 ,R7376	RS1/16S272J	

Mark	No.	Description	Part No.
	R7399 ,R7412 ,R7414 ,R7711 ,R7719	RS1/16S272J	
	R7746 ,R7748 ,R7750	RS1/16S272J	
	R7140 ,R7143 ,R7191 ,R7336 ,R7339	RS1/16S273J	
	R7363	RS1/16S273J	
	R7102 ,R7155 ,R7302	RS1/16S302J	
	R7100 ,R7300	RS1/16S303J	
	R7724 ,R7727	RS1/16S330J	
	R7135 ,R7320 ,R7519 ,R7521 ,R7523	RS1/16S332J	
	R7610 ,R7612 ,R7614	RS1/16S332J	
	R7141 ,R7144 ,R7192 ,R7337 ,R7340	RS1/16S333J	
	R7364 ,R7704 -R7707 ,R7709 ,R7710	RS1/16S333J	
	R7037 ,R7051 ,R7103 ,R7303 ,R7396	RS1/16S361J	
	R7033 ,R7150 ,R7346 ,R7400	RS1/16S391J	
	R7120	RS1/16S392J	
	R7240	RS1/16S393J	
	R7003 ,R7004 ,R7017 ,R7025 ,R7052	RS1/16S471J	
	R7356 ,R7359 ,R7365 ,R7771 ,R7811 ,	RS1/16S471J	
	R7812	RS1/16S471J	
	R7018 ,R7021 ,R7151 ,R7152 ,R7161	RS1/16S472J	
	R7169 ,R7249 ,R7347 ,R7348 ,R7512	RS1/16S472J	
	R7514 ,R7516 ,R7527 ,R7532 ,R7603	RS1/16S472J	
	R7605 ,R7607 ,R7808 ,R7809	RS1/16S472J	
	R7815 -R7820 ,R7832 -R7839 ,R7844	RS1/16S472J	
	R7015 ,R7136 ,R7137 ,R7153 ,R7349	RS1/16S473J	
	R7054 ,R7402 ,R7732 ,R7733	RS1/16S561J	
	R7737 ,R7738 ,R7742 ,R7743 ,R7756	RS1/16S561J	
	R7124 ,R7199 ,R7282 ,R7324 ,R7842	RS1/16S562J	
	R7053 ,R7197 ,R7392 ,R7393	RS1/16S681J	
	R7032 ,R7198 ,R7713 ,R7718	RS1/16S751J	
	R7757 ,R7758	RS1/16S751J	
	R7386	RS1/16S821J	
	R7040 ,R7203	RS1/16S911J	
	R7236	RS3LMF4R7J	
	R7168 ,R7231	RS3LMF5R6J	
	Other Resistors	RS1/10S□□□□J	

OTHERS

J7001	8P HOUSING WIRE	ADX2495
CN7800	PLUG 32 -P	AKM1154
CN7600	PLUG 44 -P	AKM1155
X7800	CERAMIC RESONATOR(8.00MHz)	ASS1015
X7101 ,X7301	CERAMIC RESONATOR(503KHz)	ASS1019
X7100 ,X7300	CRYSTAL RESONATOR(3579 ,545KHz)	ASS1138
X7001	CRYSTAL RESONATOR(20MHz)	ASS1140
1 ,2	SCREW	BBZ30P100FZK
CN7100	PLUG 6 -P	KM250MA6LR



SUB VIDEO ASSY

SEMICONDUCTORS

IC4201	AN5344FBP
IC4401	AN5395FBP
IC4713	CD74HCT4046AM
IC4405	CXA1315M
IC4005	HG62G010R29FB
IC4722	M51952BML
IC3802	M52036SP
IC4403	MC14011BF

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	IC4202		MC14577CF		D4705 ,D4711		1SV232
	IC4402		PA0030	COILS AND FILTERS			
	IC4720		PE6002A9		L4004		ATC1037
	IC4203		PQ20VZ1U		F4001 -F4004 ,F4401 ,F4402 ,F4404		ATF1124
	IC4701		PST9146N		F4703 ,F4704		ATF1124
	IC4704		SAA4952WP		F4005 -F4007		ATF1128
	IC4719		SAA4990H		F4701		ATF1186
	IC4702		SAA7165WP		L4706		ATG1060
	IC4004		TA8667F		F4715	ATG1063	F=30MHZ ,RANGE=18.6P
	IC4002 ,IC4003		TC35071F		DL4401 ,DL4402		ATN1029
	IC4007		TC4053BF		DL4201		ATN1040
	IC3801		TC74HC4053AF		DL4403		ATN1055
	IC3803 ,IC4006 ,IC4404 ,IC4718		TC74HC4066AF		L4735 ,L4738		ATX1035
	IC3804		TC74HC4538AF		L4745		LAUR33J
	IC4714		TC74HCT04AF		L4405 ,L4704 ,L4705 ,L4710		LCTA100J3225
	IC4716		TC74HCT08AF		L4713 ,L4714		LCTA100J3225
	IC4001		TC9078F		L4002 ,L4003 ,L4005 ,L4006		LCTA101J3225
	IC4703		TDA8755T		L4007		LCTA150J3225
	IC4705 ,IC4706		TMS4C2973 -26		L4707 -L4709		LCTA1R2J3225
	IC4707 ,IC4708		UPC29L33T		L4409 ,L4410 ,L4412		LCTA1R5J3225
	IC4709 -IC4711		UPC78L05T		L4008 ,L4712		LCTA1R8J3225
	Q4707 ,Q4709		2SA1037K		L4701 ,L4702		LCTA221J3225
	Q3807 ,Q3808 ,Q3812 -Q3814		2SA1162		L4715 -L4717		LCTA2R2J3225
	Q3822 -Q3825 ,Q4002 ,Q4006		2SA1162		L4001 ,L4406 ,L4407		LCTA4R7J3225
	Q4009 ,Q4010 ,Q4013 ,Q4014		2SA1162		L4202 ,L4402 ,L4404 ,L4411		LCTA5R6J3225
	Q4016 ,Q4017 ,Q4027 -Q4029		2SA1162		L4401		LCTA820J3225
	Q4031 ,Q4032 ,Q4036 -Q4038		2SA1162		L4408		LCTAR56J3225
	Q4042 -Q4044 ,Q4203 -Q4205 ,Q4207	2SA1162			L4718 -L4734 ,L4736 ,L4737		QTL1013
	Q4217 -Q4219 ,Q4221 -Q4224	2SA1162			L4739 -L4744		QTL1013
	Q4226 ,Q4227 ,Q4231 ,Q4232	2SA1162			F4716 -F4721		VTF1097
	Q4234 ,Q4235 ,Q4237 ,Q4243 -Q4246	2SA1162		CAPACITORS			
	Q4401 ,Q4402 ,Q4406 ,Q4407 ,Q4417	2SA1162			C4838		CCCCH100D50
	Q4422 ,Q4423 ,Q4429 ,Q4433 -Q4436	2SA1162			C4840		CCCSL101J50
	Q4704 ,Q4706 ,Q4712	2SA1162			C4839		CCCSL680J50
	Q3801 -Q3806 ,Q3809 -Q3811	2SC2712			C4430 ,C4432 -C4434 ,C4772 ,C4775		CCSQCH100D50
	Q3815 -Q3821 ,Q3826 ,Q4001 ,Q4003	2SC2712			C4779 ,C4835 ,C4836		CCSQCH100D50
	Q4005 ,Q4007 ,Q4008 ,Q4011 ,Q4012	2SC2712			C4222 ,C4228 ,C4235 ,C4243 ,C4443		CCSQCH101J50
	Q4015 ,Q4018 -Q4026 ,Q4030	2SC2712			C4468 -C4472		CCSQCH101J50
	Q4033 -Q4035 ,Q4039 -Q4041 ,Q4045	2SC2712			C4007 ,C4008 ,C4018 ,C4019		CCSQCH121J50
	Q4047 ,Q4048 ,Q4202 ,Q4206	2SC2712			C4021 ,C4022 ,C4076 -C4079 ,C4482		CCSQCH121J50
	Q4208 ,Q4209 ,Q4212 -Q4215 ,Q4220	2SC2712			C4431 ,C4721		CCSQCH150J50
	Q4225 ,Q4228 -Q4230 ,Q4233 ,Q4236	2SC2712			C4442 ,C4478		CCSQCH151J50
	Q4238 -Q4240 ,Q4242 ,Q4247 -Q4252	2SC2712			C4821 ,C4823 ,C4825		CCSQCH180J50
	Q4403 -Q4405 ,Q4408 ,Q4409 ,Q4411	2SC2712			C4083 ,C4480		CCSQCH181J50
	Q4413 -Q4416 ,Q4418 -Q4421	2SC2712			C4731 ,C4732 ,C4805		CCSQCH220J50
	Q4424 ,Q4425 ,Q4428 ,Q4430 -Q4432	2SC2712			C4011 ,C4074 ,C4075 ,C4084		CCSQCH221J50
	Q4437 -Q4443 ,Q4701 ,Q4703 ,Q4705	2SC2712			C4704 ,C4706 ,C4718 ,C4719		CCSQCH221J50
	Q4708 ,Q4711 ,Q4717 -Q4719	2SC2712			C4761 ,C4762 ,C4773 ,C4776 ,C4780		CCSQCH221J50
	Q4004 ,Q4216	2SK208			C4474 ,C4746		CCSQCH270J50
	D3855	1SS181			C4441 ,C4822 ,C4824 ,C4826		CCSQCH271J50
	D4202 ,D4208	1SS184			C4229 ,C4429 ,C4481		CCSQCH330J50
	D3801 -D3839 ,D3841 -D3845	1SS226			C4747 ,C4760		CCSQCH331J50
	D3848 -D3850 ,D3852 -D3854	1SS226			C4461 ,C4730		CCSQCH390J50
	D4001 -D4005 ,D4201 ,D4203 -D4207	1SS352			C4080 ,C4081 ,C4410		CCSQCH470J50
	D4209 ,D4701 ,D4702 ,D4706 ,D4712	1SS352			C4402 ,C4771 ,C4774 ,C4778		CCSQCH560J50
					C4748 ,C4749		CCSQCH680J50

PRO-700HD

Mark	No.	Description	Part No.
	C4009		CCSQCH820J50
	C4811		CCSQCH8R0D50
	C4017		CCSQSL101J50
	C4424		CCSQSL221J50
	C4453		CCSQSL560J50
	C3818 ,C3826 ,C4010 ,C4233 ,C4234	CEV100M16	
	C4415 ,C4425 -C4428 ,C4438	CEV100M16	
	C4702 ,C4703 ,C4715 ,C4717 ,C4765	CEV100M16	
	C4810 ,C4816 ,C4817	CEV100M16	
	C4231	CEV100M50	
	C4206 ,C4207 ,C4225 ,C4230 ,C4236	CEV101M16	
	C4241 ,C4440 ,C4454 -C4458 ,C4462	CEV101M16	
	C4005 ,C4006 ,C4037 ,C4039 ,C4041	CEV101M6R3	
	C4045 ,C4058 ,C4067 ,C4071 ,C4237	CEV101M6R3	
	C4061 ,C4212 ,C4213 ,C4216	CEV1R0M50	
	C3802 ,C3803 ,C4015 ,C4020 ,C4023	CEV220M16	
	C4025 ,C4027 ,C4785 ,C4787 ,C4789	CEV220M16	
	C4791 ,C4812 ,C4814 ,C4819	CEV220M16	
	C4226	CEV220M6R3	
	C4219 ,C4711	CEV2R2M50	
	C3801 ,C3804 ,C3806 ,C3807 ,C3809	CEV470M16	
	C3816 ,C3819 ,C4002 ,C4029 ,C4031	CEV470M16	
	C4062 ,C4082 ,C4085 ,C4227 ,C4436	CEV470M16	
	C4446 ,C4450 ,C4459 ,C4460 ,C4476	CEV470M16	
	C3824 ,C4093 ,C4701 ,C4777	CEV470M6R3	
	C4705 ,C4707 ,C4744	CEV4R7M35	
	C3813	CEVNP1R0M50	
	C4210 ,C4211	CEVNP2R2M35	
	C4208 ,C4209	CEVNP3R3M50	
	C3814	CEVR10M50	
	C4201 ,C4202	CEVR33M50	
	C4217	CEVR47M50	
	C4214 ,C4403 ,C4411 ,C4419 ,C4467	CFHSQ103J16	
	C4064 ,C4073 ,C4232 ,C4423	CKSQYB102K50	
	C3811	CKSQYB103K50	
	C4418	CKSQYB152K50	
	C4463 -C4466	CKSQYB224K16	
	C4763	CKSQYB272K50	
	C3810	CKSQYB472K50	
	C3812 ,C3815	CKSQYB561K50	
	C4060	CKSQYB822K50	
	C3820 ,C3825 ,C3828 ,C4094 ,C4095	CKSQYF103Z50	
	C4097 ,C4215 ,C4218 ,C4242	CKSQYF103Z50	
	C4404 -C4409 ,C4412 ,C4414 ,C4416	CKSQYF103Z50	
	C4420 ,C4422 ,C4448 ,C4475 ,C4708	CKSQYF103Z50	
	C4710 ,C4743 ,C4764 ,C4806 ,C4820	CKSQYF103Z50	
	C3829 ,C4001 ,C4003 ,C4004	CKSQYF104Z50	
	C4012 -C4014 ,C4016 ,C4024 ,C4026	CKSQYF104Z50	
	C4028 ,C4030 ,C4032 -C4036 ,C4038	CKSQYF104Z50	
	C4040 ,C4042 -C4044 ,C4046 -C4057	CKSQYF104Z50	
	C4059 ,C4063 ,C4065 ,C4068 ,C4070	CKSQYF104Z50	
	C4072 ,C4090 ,C4709 ,C4714 ,C4716	CKSQYF104Z50	
	C4720 ,C4722 ,C4725 -C4729 ,C4750	CKSQYF104Z50	
	C4752 -C4756 ,C4759 ,C4766 -C4770	CKSQYF104Z50	
	C4781 -C4784 ,C4786 ,C4788 ,C4790	CKSQYF104Z50	

Mark	No.	Description	Part No.
	C4792 -C4800 ,C4804 ,C4808 ,C4809	CKSQYF104Z50	
	C4813 ,C4815 ,C4818 ,C4827 -C4834	CKSQYF104Z50	
	C4712 ,C4713	CKSQYF333Z50	
	C3805 ,C3808 ,C3817 ,C4086	CKSQYF473Z50	
	C4203 ,C4204 ,C4223 ,C4224 ,C4238	CKSQYF473Z50	
	C4240 ,C4417 ,C4421 ,C4435 ,C4437	CKSQYF473Z50	
	C4439 ,C4444 ,C4445 ,C4447 ,C4449	CKSQYF473Z50	
	C4451 ,C4452 ,C4742	CKSQYF473Z50	
	C3822	CQMA102J50	
	C3821	CQPA222J2A	
	C3823	CQPA331J2A	
RESISTORS			
	R4395	RN1/16SE1101D	
	R4516	RN1/16SE3001D	
	R4027 ,R4037 ,R4097 ,R4102 ,R4355	RS1/16S0R0J	
	R4406 ,R4449 ,R4462 ,R4597 ,R4704	RS1/16S0R0J	
	R4706 ,R4770 ,R4783 ,R4809 ,R4811	RS1/16S0R0J	
	R4829 ,R6186	RS1/16S0R0J	
	R4394	RS1/16S1002D	
	R4781 ,R4795 ,R4827	RS1/16S100J	
	R3801 ,R3813 ,R3815 ,R3817 ,R3831	RS1/16S101J	
	R3834 ,R3837 -R3844 ,R3851 -R3855	RS1/16S101J	
	R3858 ,R3864 -R3876 ,R3880 -R3888	RS1/16S101J	
	R3890 -R3896 ,R3900 -R3913 ,R3915	RS1/16S101J	
	R3918 -R3925 ,R3927 ,R3932 ,R3934	RS1/16S101J	
	R3942 ,R3943 ,R3945 ,R4001 ,R4002	RS1/16S101J	
	R4009 ,R4014 ,R4019 ,R4020 ,R4023	RS1/16S101J	
	R4029 ,R4030 ,R4033 ,R4039	RS1/16S101J	
	R4045 -R4048 ,R4058 ,R4065	RS1/16S101J	
	R4067 -R4069 ,R4073 ,R4081	RS1/16S101J	
	R4083 ,R4084 ,R4086 ,R4087 ,R4091	RS1/16S101J	
	R4099 ,R4109 ,R4114 ,R4115	RS1/16S101J	
	R4117 ,R4118 ,R4120 ,R4122 -R4124	RS1/16S101J	
	R4129 -R4131 ,R4133 -R4135	RS1/16S101J	
	R4137 -R4141 ,R4144 ,R4146 ,R4147	RS1/16S101J	
	R4150 ,R4152 -R4155 ,R4164 ,R4165	RS1/16S101J	
	R4202 ,R4205 ,R4239 ,R4240	RS1/16S101J	
	R4242 ,R4243 ,R4245 ,R4254 ,R4256	RS1/16S101J	
	R4268 ,R4269 ,R4274 ,R4293 -R4297	RS1/16S101J	
	R4299 -R4301 ,R4341 ,R4342	RS1/16S101J	
	R4351 -R4353 ,R4359 ,R4370 ,R4371	RS1/16S101J	
	R4376 ,R4380 ,R4386 ,R4408 -R4410	RS1/16S101J	
	R4415 ,R4420 ,R4422 ,R4425	RS1/16S101J	
	R4428 -R4430 ,R4439 ,R4442 ,R4443	RS1/16S101J	
	R4445 ,R4453 ,R4461 ,R4466 ,R4467	RS1/16S101J	
	R4470 ,R4513 ,R4514 ,R4518 -R4521	RS1/16S101J	
	R4528 ,R4538 ,R4543 ,R4546	RS1/16S101J	
	R4548 ,R4549 ,R4554 ,R4564 -R4575	RS1/16S101J	
	R4584 ,R4588 ,R4589 ,R4593 ,R4595	RS1/16S101J	
	R4598 ,R4713 ,R4719 ,R4726 ,R4728	RS1/16S101J	
	R4730 ,R4804 ,R4813 ,R4815	RS1/16S101J	
	R3937 ,R4071 ,R4072 ,R4074 ,R4076	RS1/16S102J	
	R4127 ,R4170 ,R4172 ,R4206 ,R4216	RS1/16S102J	
	R4249 ,R4257 ,R4277 ,R4289 ,R4389	RS1/16S102J	
	R4404 ,R4405 ,R4414 ,R4426 ,R4438	RS1/16S102J	
	R4483 ,R4530 ,R4594 ,R4599 ,R4607	RS1/16S102J	

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	R4707 ,R4708 ,R4729 ,R4792 ,R4832	RS1/16S102J		R4241 ,R4244 ,R4275 ,R4298 ,R4337	RS1/16S222J		
	R4837	RS1/16S102J		R4360 ,R4365 ,R4369 ,R4375 ,R4379	RS1/16S222J		
	R3803 ,R3820 ,R3823 ,R4078 ,R4079	RS1/16S103J		R4413 ,R4427 ,R4469 ,R4496 ,R4512	RS1/16S222J		
	R4088 ,R4089 ,R4092 ,R4093 ,R4156	RS1/16S103J		R4532 ,R4580 ,R4586 ,R4590	RS1/16S222J		
	R4167 ,R4173 ,R4175 ,R4176	RS1/16S103J		R4742 -R4751	RS1/16S222J		
	R4203 ,R4204 ,R4209 ,R4253	RS1/16S103J		R3824 ,R3825 ,R4012 ,R4013 ,R4128	RS1/16S223J		
	R4264 ,R4265 ,R4348 -R4350 ,R4364	RS1/16S103J		R4142 ,R4219 ,R4227 ,R4232 ,R4237	RS1/16S223J		
	R4372 ,R4381 -R4383 ,R4385	RS1/16S103J		R4248 ,R4272 ,R4308 ,R4309 ,R4317	RS1/16S223J		
	R4391 ,R4392 ,R4423 ,R4440 ,R4455	RS1/16S103J		R4324 ,R4325 ,R4356 ,R4361	RS1/16S223J		
	R4472 ,R4474 ,R4475 ,R4551 ,R4555	RS1/16S103J		R4576 ,R4577 ,R4619 ,R4624 ,R4833	RS1/16S223J		
	R4578 ,R4579 ,R4611 -R4616	RS1/16S103J		R4007 ,R4230	RS1/16S224J		
	R4621 ,R4622 ,R4794 ,R4801 ,R4834	RS1/16S103J		R4292 ,R4714 ,R4720 ,R4774	RS1/16S241J		
	R4836	RS1/16S103J		R4332 ,R4479 ,R4710 ,R4716	RS1/16S242J		
	R3809 -R3812 ,R3814 ,R3816 ,R3845	RS1/16S104J		R4061 ,R4108 ,R4335	RS1/16S243J		
	R4143 ,R4226 ,R4494 ,R4765	RS1/16S104J		R3828 ,R3938 ,R3939 ,R4041 ,R4042	RS1/16S272J		
	R4229	RS1/16S105J		R4080 ,R4231 ,R4233 ,R4772 ,R4788	RS1/16S272J		
	R4016 ,R4050	RS1/16S111J		R4441 ,R4603 ,R4609	RS1/16S273J		
	R4354	RS1/16S112J		R4285 ,R4504	RS1/16S301J		
	R4789	RS1/16S121J		R4435 ,R4503 ,R4601	RS1/16S331J		
	R3804 ,R3832 ,R3833 ,R3914 ,R4066	RS1/16S122J		R3931 ,R4052 ,R4053 ,R4174	RS1/16S332J		
	R4283 ,R4284 ,R4291 ,R4340 ,R4476	RS1/16S122J		R4270 ,R4271 ,R4304 ,R4545	RS1/16S332J		
	R4478 ,R4482 ,R4550	RS1/16S122J		R3847 ,R4418 ,R4419 ,R4488 -R4490	RS1/16S333J		
	R3805 ,R3807 ,R3819 ,R3935 ,R3941	RS1/16S123J		R4493 ,R4791	RS1/16S333J		
	R4215 ,R4362 ,R4459 ,R4517	RS1/16S123J		R4225	RS1/16S362J		
	R4769	RS1/16S124J		R4434 ,R4600	RS1/16S391J		
	R4591 ,R4592	RS1/16S132J		R3836 ,R3948 ,R4040 ,R4044 ,R4096	RS1/16S392J		
	R4217	RS1/16S133J		R4101 ,R4250 ,R4387 ,R4388 ,R4495	RS1/16S392J		
	R4522	RS1/16S1502D		R4064 ,R4224 ,R4436 ,R4831 ,R4835	RS1/16S393J		
	R4004 ,R4485	RS1/16S151J		R4276	RS1/16S394J		
	R3822 ,R3861 ,R3926 ,R4008 ,R4018	RS1/16S152J		R4104 ,R4113 ,R4502	RS1/16S431J		
	R4125 ,R4132 ,R4136 ,R4145 ,R4148	RS1/16S152J		R4082 ,R4085 ,R4119 ,R4457	RS1/16S432J		
	R4151 ,R4412 ,R4421 ,R4544 ,R4547	RS1/16S152J		R4107 ,R4602 ,R4608	RS1/16S433J		
	R4556 ,R4771	RS1/16S152J		R3877 -R3879 ,R3889 ,R3897 -R3899	RS1/16S470J		
	R3802 ,R3806 ,R3808 ,R3818 ,R4063	RS1/16S153J		R4505 ,R4507 ,R4542 ,R4581 ,R4583	RS1/16S470J		
	R4212 ,R4267 ,R4357 ,R4363 ,R4374	RS1/16S153J		R4095 ,R4100 ,R4111 ,R4320 ,R4338	RS1/16S471J		
	R4377 ,R4378 ,R4398 ,R4446 ,R4447	RS1/16S153J		R4477 ,R4515 ,R4617 ,R4618	RS1/16S471J		
	R4525 ,R4552 ,R4557 -R4560	RS1/16S153J		R3848 ,R3916 ,R4054 ,R4056 ,R4059	RS1/16S472J		
	R4456	RS1/16S154J		R4070 ,R4090 ,R4094 ,R4303	RS1/16S472J		
	R4003 ,R4021 ,R4031	RS1/16S162J		R4314 ,R4315 ,R4322 ,R4323 ,R4329	RS1/16S472J		
	R4251	RS1/16S163J		R4384 ,R4397 ,R4454 ,R4727 ,R4766	RS1/16S472J		
	R3862 ,R4006 ,R4028 ,R4038 ,R4110	RS1/16S182J		R4787 ,R4812 ,R4814	RS1/16S472J		
	R4126 ,R4280 ,R4287 ,R4402 ,R4411	RS1/16S182J		R3821 ,R4166 ,R4168 ,R4236 ,R4450	RS1/16S473J		
	R4500 ,R4524 ,R4527 ,R4529 ,R4531	RS1/16S182J		R4620 ,R4623 ,R4625	RS1/16S473J		
	R4533 ,R4703	RS1/16S182J		R4223	RS1/16S474J		
	R3850 ,R4055 ,R4057 ,R4214	RS1/16S183J		R4796 ,R4798 ,R4807	RS1/16S510J		
	R4220 ,R4221 ,R4228	RS1/16S183J		R4311 ,R4333 ,R4334 ,R4339	RS1/16S511J		
	R4407	RS1/16S201J		R4312	RS1/16S512J		
	R4105	RS1/16S202J		R4213	RS1/16S513J		
	R4222 ,R4451 ,R4452 ,R4481	RS1/16S203J		R3933	RS1/16S5601D		
	R4393 ,R4465 ,R4711 ,R4712	RS1/16S221J		R4246 ,R4499	RS1/16S560J		
	R4717 ,R4718 ,R4723 ,R4773 ,R4790	RS1/16S221J		R3826 ,R3829 ,R3830 ,R4022 ,R4032	RS1/16S561J		
	R4803	RS1/16S221J		R4290 ,R4366 ,R4390 ,R4403 ,R4484	RS1/16S561J		
	R3856 ,R3857 ,R3859 ,R3860 ,R3863	RS1/16S222J		R3849 ,R3917 ,R4043 ,R4177 ,R4178	RS1/16S562J		
	R3944 ,R4010 ,R4011 ,R4024 ,R4034	RS1/16S222J		R4278 ,R4279 ,R4305 ,R4328 ,R4367	RS1/16S562J		
	R4098 ,R4103 ,R4106 ,R4112 ,R4116	RS1/16S222J		R4701 ,R4702 ,R4709 ,R4715	RS1/16S562J		

Mark	No.	Description	Part No.
	R3846 ,R4437 ,R4492		RS1/16S563J
	R4252		RS1/16S564J
	R4806		RS1/16S620J
	R4330 ,R4605		RS1/16S621J
	R4326		RS1/16S622J
	R4313 ,R4327 ,R4491		RS1/16S623J
	R4523		RS1/16S6801D
	R4501		RS1/16S680J
	R4005 ,R4149 ,R4247 ,R4302 ,R4373		RS1/16S681J
	R4468 ,R4604 ,R4606 ,R4610		RS1/16S681J
	R4721 ,R4722 ,R4724 ,R4725		RS1/16S681J
	R4060 ,R4210 ,R4218 ,R4234 ,R4266		RS1/16S682J
	R4306 ,R4321 ,R4458 ,R4473		RS1/16S682J
	R4785 ,R4786 ,R4800		RS1/16S682J
	R4510 ,R4511		RS1/16S683J
	R4797 ,R4799 ,R4808		RS1/16S750J
	R4211 ,R4310 ,R4424		RS1/16S752J
	R4319		RS1/16S753J
	R4062		RS1/16S754J
	R4015 ,R4017 ,R4049 ,R4051 ,R4506		RS1/16S820J
	R3835 ,R4025 ,R4026 ,R4035 ,R4036		RS1/16S821J
	R4282 ,R4331 ,R4401		RS1/16S821J
	R3827 ,R4318 ,R4336 ,R4460 ,R4480		RS1/16S822J
	R4526 ,R4768		RS1/16S822J
	R4288		RS1/16S911J
	R3936 ,R3940		RS1/16S912J
	R4498		RS1/2S271J
	R4497		RS1/2S331J
	VR4201		VRTS6VS102
	VR3801		VRTS6VS222
	VR4202		VRTS6VS472
	VR4001		VRTS6VS474
	Other Resistors		RD1/4PU□□□□

OTHERS

CN3801 ,CN3802	PLUG 44 -P	AKM1155
K4001 -K4003 ,K4201 -K4203	TEST PIN	AKX9002
K4401 -K4404 ,K4701 -K4706		AKX9002
X4701	CRYSTAL RESONATOR(12MHz)	ASS1133

DEFLECTION SERVICE ASSY

SEMICONDUCTORS

	IC303 ,IC601	NJM4558DXP
	IC302	PQ30RV11(A)
△	IC301	TA8638N
	Q315 ,Q316 ,Q604 ,Q605 ,Q804	2SA1145
	Q806	2SA1145
	Q808	2SA1837
	Q302 ,Q306 ,Q311 ,Q313 ,Q319	2SA933S
	Q321 ,Q322 ,Q325 ,Q326	2SA933S
x	Q607 ,Q608	
	Q607 ,Q608 ,Q611 ,Q751 ,Q801	2SA933S
	Q301 ,Q303 -Q305 ,Q307 ,Q310	2SC1740S
	Q312 ,Q318 ,Q320 ,Q327 ,Q602	2SC1740S
	Q614 ,Q752 ,Q802	2SC1740S
	Q314 ,Q317 ,Q603 ,Q606 ,Q803	2SC2705
	Q805 ,Q807	2SC2705

	Q308 ,Q601	2SC3332
	Q609	2SC3468
△	Q753 ,Q754	2SC4686A
	Q809	2SC4793
△	Q612	2SC5043
△	Q309	2SC5046
	Q324 ,Q613	2SC5197
	Q610	2SD1276A
	D302 ,D304 ,D601	10DF2
	D305 -D314 ,D320 ,D322 ,D323	1SS254
	D342 ,D343 ,D603 ,D608 ,D609	1SS254
	D611 ,D614 -D618 ,D621 ,D625	1SS254
	D751 -D757	1SS254
△	D622 ,D623	2NU41
	D321	BR3371XJ30A
△	D318	DD52RC
	D328 ,D329 ,D610	ERA22 -02
	D613	ERB06 -15
	D303 ,D602	ERB93 -0203
△	D316 ,D317	ERD07 -15
	D801 ,D802	MTZJ39
	D315 ,D327 ,D604 -D607	RD12ESB
	D319	RD5.1EB
	D624	RD5.1ESB1
	D612	RD7.5ESB2
	D627	RD9.1ESB1
	D803 -D806	S5688G

COILS AND FILTERS

	SG751	AEX1024
	L307 ,L308	ATH -059
x△	T601	
△	T301	ATK1126
△	T302 ,T602	ATK1127
	L604	ATL1138
	L303 -L306 ,L309 ,L601 -L603	ATX1008
	L310 ,L605	LTA152J

CAPACITORS

△	C325	(100pF/2000V)	ACG -032
	C754 ,C755	(4700pF/2000V)	ACG1028
	C636	(1μF/160V)	ACH -372
△	C324 ,C604	(10μF/160V)	ACH1117
	C331 ,C335 ,C358 ,C606 ,C802		CCCSL101J50
	C336 ,C612		CCCSL101K2H
	C820 -C822		CCCSL220J50
	C815		CCCSL221J50
	C326 ,C342		CCCSL470J50
	C304		CEANP2R2M50
	C806 ,C807		CEAT101M25
	C817		CEAT470M50
	C334		CEHAQ1R0M2C
	C353 ,C616		CEHAT100M2D
	C619 ,C621 ,C752		CEHAT100M50
	C308 ,C337 ,C346 ,C349		CEHAT101M25
	C354 ,C355 ,C608 ,C630		CEHAT101M25
	C330 ,C605		CEHAT101M50
	C359		CEHAT102M35
	C357 ,C633		CEHAT1R0M50
	C620 ,C809 ,C818		CEHAT220M2D

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C635		CEHAT220M50		R617		RD1/2PM563J
	C618		CEHAT220M63	△	R395 ,R634		RD1/4LMF100J
	C328 ,C624 ,C625		CEHAT221M25		R635		RD1/4MUF100J
	C332 ,C613		CEHAT330M35		R827 ,R828		RD1/4MUF560J
	C313 ,C344		CEHAT331M16				
	C810		CEHAT3R3M2C	△	R630		RN1/2PC3902F
	C310 ,C623 ,C751		CEHAT470M25	△	R629		RN1/2PC4302F
	C351 ,C352 ,C360 ,C361		CEHAT471M16		R328		RN1/4PC1002F
	C634		CEHAT4R7M2E		R645 ,R646 ,R650		RN1/4PC1003F
	C309 ,C341 ,C343		CEHAT4R7M50		R371		RN1/4PC1102F
△	C601 ,C602		CFPHW222H3D		R370 ,R419 ,R639 ,R782		RN1/4PC1202F
△	C320		CFPHW332H3D		R318		RN1/4PC1203F
△	C321		CFPHW472H3D		R302		RN1/4PC1303F
△	C319 ,C322		CFPMW334J2G		R372		RN1/4PC1503F
	C323 ,C603		CFTXA105J50		R783		RN1/4PC1801F
	C312		CFTXA224J50		R753		RN1/4PC2202F
	C329		CFTXA683J50		R388		RN1/4PC2203F
	C311		CKCYB102K50		R327		RN1/4PC2702F
	C303		CKCYB103K50		R386 ,R752		RN1/4PC3302F
	C607		CKCYB222K50		R387		RN1/4PC3901F
	C628		CKCYB332K2H		R755		RN1/4PC4701F
	C327 ,C611		CKCYB561K50		R754		RN1/4PC56R0F
	C627		CKCYB682K50		R373 ,R421 ,R640		RN1/4PC6801F
	C637 ,C814 ,C819		CKCYE103P2H		R644		RN1/4PC7502F
	C615		CKCYE222P2H		R301 ,R647		RN1/4PC8201F
	C315 -C318 ,C333 ,C338 -C340		CKCYF103Z50		R338 ,R604		RS1MMF100J
	C345 ,C347 ,C348 ,C350 ,C356		CKCYF103Z50		R809 ,R810		RS1MMF472J
	C609 ,C610 ,C614 ,C617 ,C622		CKCYF103Z50		R355		RS2MMF180J
	C626 ,C629 ,C632 ,C753 ,C801		CKCYF103Z50		R336 ,R337 ,R339 ,R602 ,R603		RS2MMF1R0J
	C803 ,C808		CKCYF103Z50		R621 ,R622		RS2MMF1R8J
	C804 ,C805 ,C816		CKCYF473Z50		R333 ,R601		RS2MMF222J
	C813		CQMA104K2E		R819 -R821		RS2MMF271J
	C307		CQMA471J50		R358 ,R359		RS2MMF2R2J
	C811 ,C812		CQMA472K2E		R658 ,R659		RS2MMF820J
	C302		CQMA561J50		R660		RS2MMFR56J
	C305		CQMA682J50	x	R637 -R640		
	C301		CQPA102J2A	x	R642 -R645		
	C314		CQPA333J2A		R822 ,R825 ,R831		RS3LMF471J
	C306		CQPA821J2A	△	R392		RT5PZ561K
				x	VR601		
				x	VR602		
					VR301		VRTHS6VS222
					VR602 ,VR603		VRTHS6VS223
					VR303		VRTB6VS223
					VR302		VRTHS6VS473
					Other Resistors		RD1/4PU□□□□J
RESISTORS				OTHERS			
R769	(3.3kΩ ,1/2W)	ACN1011		J602	H.V.RETURN WIRE	ADX2486	
R661	(27Ω ,1/2W)	ACN1136		J601	1P READ WIRE	ADX2492	
R826		RD1/2MMF100J		301 ,309 ,601	ISOLATION SHEET	AEB1358	
R815		RD1/2MMF332J		602	NYLON BINDER	AEC -093	
R770 ,R772 -R776		RD1/2PM114J		△ CN301 -CN303	PLUG 3 -P	AKM1055	
R631		RD1/2PM122J					
R365		RD1/2PM153J		CN751	PLUG 3 -P	AKM1055	
R648		RD1/2PM154J		107	SHIELD CASE	ANK1510	
R771 ,R777 -R781		RD1/2PM184J		305 ,607	SCREW	BBZ30P080FCU	
R366 ,R618 ,R649		RD1/2PM223J		CN304	PLUG 12 -P	KM250MA12	
R757 -R768		RD1/2PM224J		CN305	PLUG 12 -P	KM250MA13	
R813 ,R814		RD1/2PM270J					
R801		RD1/2PM272J					
R823 ,R824		RD1/2PM2R2J					
R628		RD1/2PM333J					
R651		RD1/2PM334J					

PRO-700HD

Mark	No.	Description	Part No.
	CN309	PLUG 4 -P	KM250MA4
	CN307	PLUG 5 -P	KM250MA5
	CN308	PLUG 6 -P	KM250MA6
	CN306	PLUG 6 -P	KM250MA6R
	CN801	PLUG 9 -P	KM250MA9
	304 ,605	SCREW	PMB30P160FZK
	306 ,604 ,606 ,752 ,802	SCREW	PMZ30P100FZK
	608	SCREW	VPZ40P120FMC

P R CRT DRIVE ASSY SEMICONDUCTORS

IC5101	TDA6120Q
Q5101	2SC1740S
D5101 -D5106	S5688G

COILS AND FILTERS

SG5101 ,SG5102	SPARK GAP	AEX1024
L5102		LAU2R2J
L5101		LAU3R3J
L5103		LTA562J

CAPACITORS

C5108	(1000pF/2000V)	ACG1001
C5107 ,C5114	(22μF/250V)	ACH1318
C5103		CCCSL120J50
C5101		CCCSL390J50
C5102		CCCSL7R0D50

C5110	CEAT101M25
C5109	CEAT222M16
C5111 ,C5113	CKCYE103P2H
C5104 ,C5106	CKCYF103Z50

RESISTORS

R5115	(47Ω ,1/2W)	ACN1129
R5116	(220Ω ,1/2W)	ACN1131
R5118	(470Ω ,1/2W)	ACN1133
R5117		RD1/2LMF100J
R5101		RS1MMF270J

R5112 -R5114	RS3LMF822J
VR5101	VRTHS6VS222
Other Resistors	RD1/4PU□□□J

OTHERS

5104	CRT SOCKET	AKG1005
5104 -5108	SCREW	BBZ30P080FCU
5103	SCREW	BPZ30P100FZK
CN5105	PLUG 3 -P	KM250MA3
CN5106	PLUG 3 -P	KM250MA3R

CN5102	PLUG 5 -P	KM250MA5B
CN5101	PLUG 5 -P	KM250MA5R
5101 ,5102	SCREW	PMB30P160FZK

Q G CRT DRIVE ASSY SEMICONDUCTORS

IC5151	TDA6120Q
Q5151	2SC1740S
D5151 -D5156	S5688G

COILS AND FILTERS

SG5151 ,SG5152	AEX1024
L5152	LAU2R2J
L5151	LAU3R3J
L5153	LTA562J

Mark	No.	Description	Part No.
CAPACITORS			
	C5158		ACG1001
	C5157 ,C5164		ACH1318
	C5153		CCCSL120J50
	C5151		CCCSL560J50
	C5152		CCCSL7R0D50
	C5160		CEAT101M25
	C5159		CEAT222M16
	C5161 ,C5163		CKCYE103P2H
	C5154 ,C5156		CKCYF103Z50

RESISTORS

R5164	ACN1129
R5165	ACN1131
R5168	ACN1133
R5167	RD1/2LMF100J
R5151	RS1MMF270J

R5161 -R5163	RS3LMF822J
VR5151	VRTHS6VS222
Other Resistors	RD1/4PU□□□J

OTHERS

J5152	4P HOUSING WIRE	ADX2493
5154	CRT SOCKET	AKG1005
5154 -5158	SCREW	BBZ30P080FCU
5153	SCREW	BPZ30P100FZK
CN5156	PLUG 3 -P	KM250MA3

CN5157	PLUG 3 -P	KM250MA3B
CN5151	PLUG 5 -P	KM250MA5
5151 ,5152	SCREW	PMB30P160FZK

R B CRT DRIVE ASSY SEMICONDUCTORS

IC5201	TDA6120Q
Q5201	2SC1740S
D5201 -D5206	S5688G

COILS AND FILTERS

SG5201 ,SG5202	AEX1024
L5202	LAU1R0J
L5201	LAU4R7J
L5203	LTA562J

CAPACITORS

C5208	ACG1001
C5207 ,C5214	ACH1318
C5201 -C5203	CCCSL220J50
C5210	CEAT101M25
C5209	CEAT222M16

C5211 ,C5213	CKCYE103P2H
C5204 ,C5206	CKCYF103Z50

RESISTORS

R5214	(47Ω ,1/2W)	ACN1129
R5215	(220Ω ,1/2W)	ACN1131
R5218	(470Ω ,1/2W)	ACN1133
R5217		RD1/2LMF100J
R5201		RS1MMF270J

R5211 -R5213	RS3LMF822J
VR5201	VRTHS6VS222
Other Resistors	RD1/4PU□□□J

Mark	No.	Description	Part No.
OTHERS			
	J5203	4P HOUSING WIRE	ADX2493
	5204	CRT SOCKET	AKG1005
	5204 -5208	SCREW	BBZ30P080FCU
	5203	SCREW	BPZ30P100FZK
	CN5206	PLUG 3 -P	KM250MA3
	CN5207	PLUG 3 -P	KM250MA3B
	CN5201	PLUG 5 -P	KM250MA5B
	5201 ,5202	SCREW	PMB30P160FZK

**AC IN ASSY****SEMICONDUCTORS**

IC101 ,IC102	PC817CD
Q105	2SA933S
Q101 -Q104 ,Q106	2SC1740S
D107 -D110 ,D112 -D117	1SS254
D119 -D123	1SS254
D118	BR3371XJ30A
D101 ,D102	D5SBA60(B)
D111	HZS6B1L
D103 -D106	S5688G

COILS AND FILTERS

△ L101 -L104	ATF1183
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TRANSFORMERS

△ T101 POWER TRANSFORMER	ATT1281
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SWITCHES AND RELAYS

RY103 ,RY104	ASR1049
RY101 ,RY102	ASR1050

CAPACITORS

△ C101 -C104 (0.22μF/250V)	ACE1107
C105 -C112 (0.01μF/250V)	ACG -501
C119	CEHAT100M50
C113	CEHAT102M16
C115 -C118 ,C120	CEHAT470M25
C114	CKCYB103K50

RESISTORS

R102 ,R104 (2.2Ω ,5W)	ACN1128
R105	BCN1022
R106 ,R107	RD1/4MUF222J
R101 ,R103	RT5PZ1R8K
Other Resistors	RD1/4PU□□□J

OTHERS

J101	10P HOUSING WIRE	ADX2488
△ FU104	(500mA ,125V)	AEK1010
△ FU103	(800mA ,125V)	AEK1011
△ FU101	(10A ,250V)	AEK1069
△ FU102	(4A ,125V)	REK1082
CN104	PLUG 2 -P	AKM1127
CN103	PLUG 3 -P	AKM1128
CN101 ,CN102	PLUG2 -P	AKM1156
H103 -H108	FUSE CLIP	AKR1003
H101 ,H102	FUSE HOLDER	AKR1007
8010	SCREW	BBZ30P100FZK

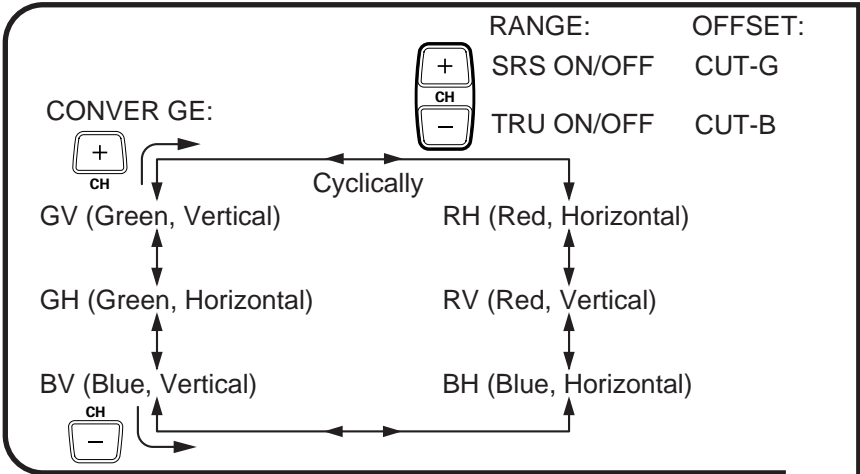
Mark	No.	Description	Part No.
TV FRONT END SYSTEM UNIT			
No service parts.			

RF SW

No service parts.

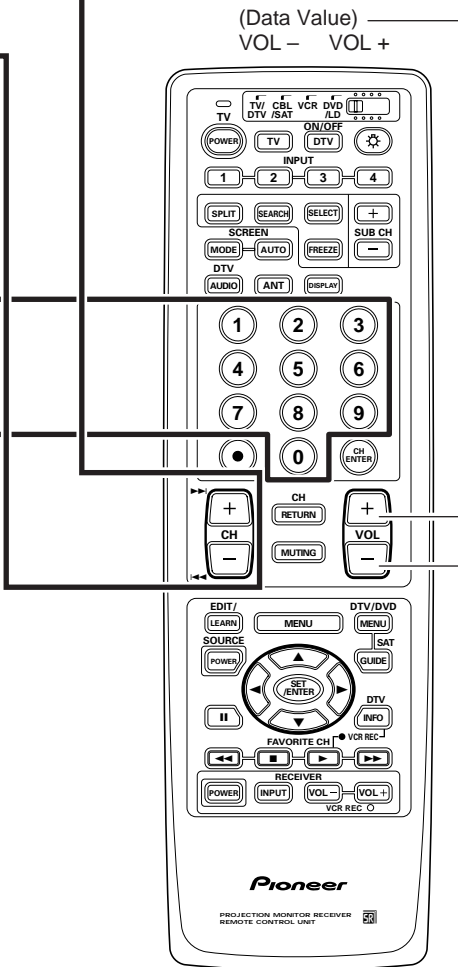
6. ADJUSTMENT

■ Key Indication of the Remote Control Unit


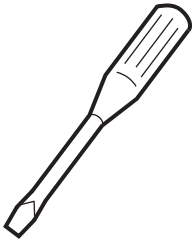
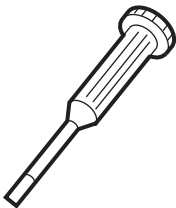
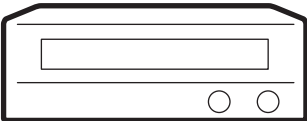
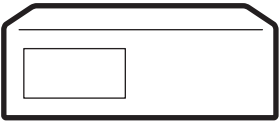
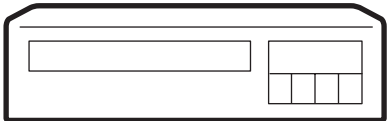


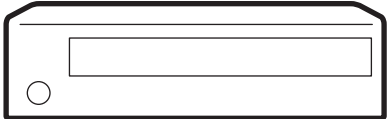
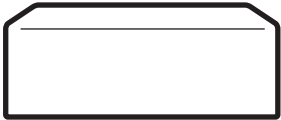


• Adjustment Items

Adjustment		Adjustment Name	NUMERIC KEYS	ADJUSTMENT ITEMS	TYPE					
RANGE	OFFSET				GH	GV	RH	RV	BH	BV
	○	CUT-R	0	STATIC	○	○	○	○	○	○
○		VOL0	0		○	○	○	○	○	○
○	○	Color	1	SKEW 3D SKEW 5D SKEW	○	○	○	○	○	○
○	○	TINT	2	BOW 4D BOW 6D BOW	○	○	○	○	○	○
○	○	Contrast	3	SUB KEY M S KEY 3S KEY M 3S KEY	○	○	○	○	○	○
○	○	Bright	4	KEY MID KEY 3D KEY M 3D KEY	○	○	○	○	○	○
○	○	Sharpness	5	SUB PIN M S PIN 4S PIN M 4S PIN	○	○	○	○	○	○
○		3D YC, 3D NR Level	6	PIN MID PIN 4D PIN M 4D PIN	○	○	○	○	○	○
○	○	Detail	6		○	○	○	○	○	○
○		VOL20	7	LIN MID LIN 6D LIN	○	○	○	○	○	○
○	○	S.V.M	7		○	○	○	○	○	○
○		VOL30	8	SIZE MID SIZE 5D SIZE	○	○	○	○	○	○
○	○	DRV-R	8		○	○	○	○	○	○
○		S.V.M	9		○	○	○	○	○	○
○	○	DRV-B	9		○	○	○	○	○	○

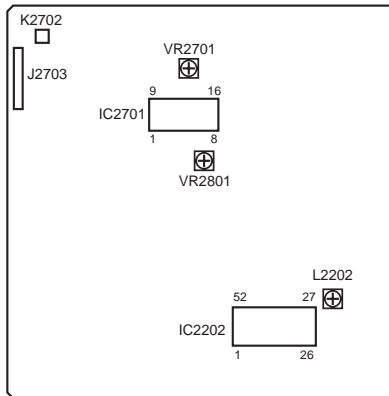


■ Jigs and Measuring Instruments

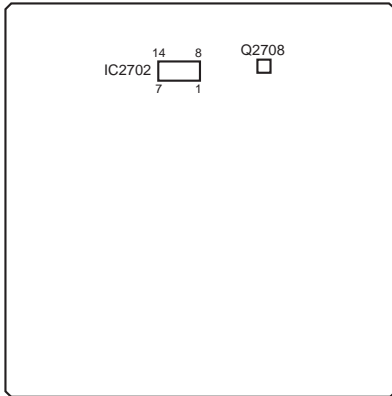
 <p>Remote control unit (CU-SD105)</p>	 <p>⊖ Screwdriver</p>	 <p>⊖ Adjustment screwdriver</p>
 <p>Color bar generator</p>	 <p>D.DC. Volt meter</p>	 <p>LD player</p>
 <p>Monoscope</p>	 <p>Dual trace oscilloscope</p>	 <p>Frequency counter</p>
 <p>For HD Signal generator</p>		

■ Assembly Adjustment Location and Items

Ⓐ TUNER • u-COM ASSY (A SIDE)



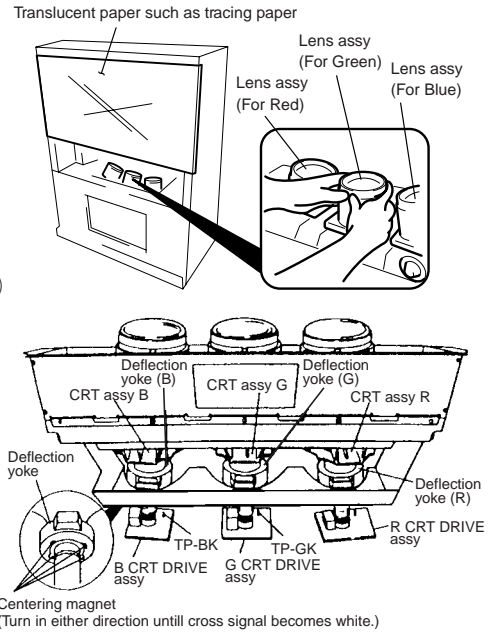
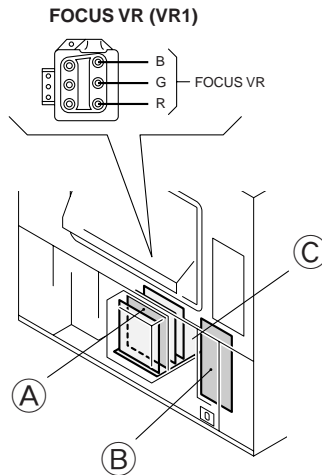
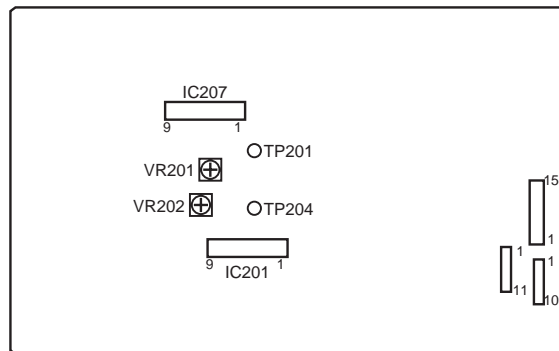
TUNER • u-COM ASSY (B SIDE)



Ⓒ VIDEO ASSY (A SIDE)



Ⓑ POWER SUPPLY ASSY



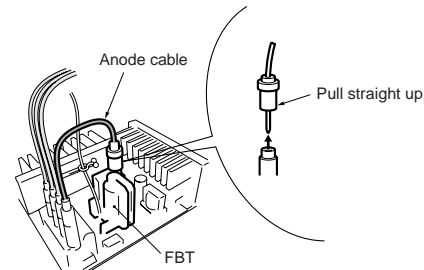
MEASURING METHOD

Disconnect the FBT anode cable as shown below. Measure at the point where the cable enters the FBT.

Caution: Take extra precaution when measuring the voltage. High voltage are also present in surrounding circuit boards. (CRT DRIVE assy, POWER SUPPLY assy).

SERVICEMAN WARNING

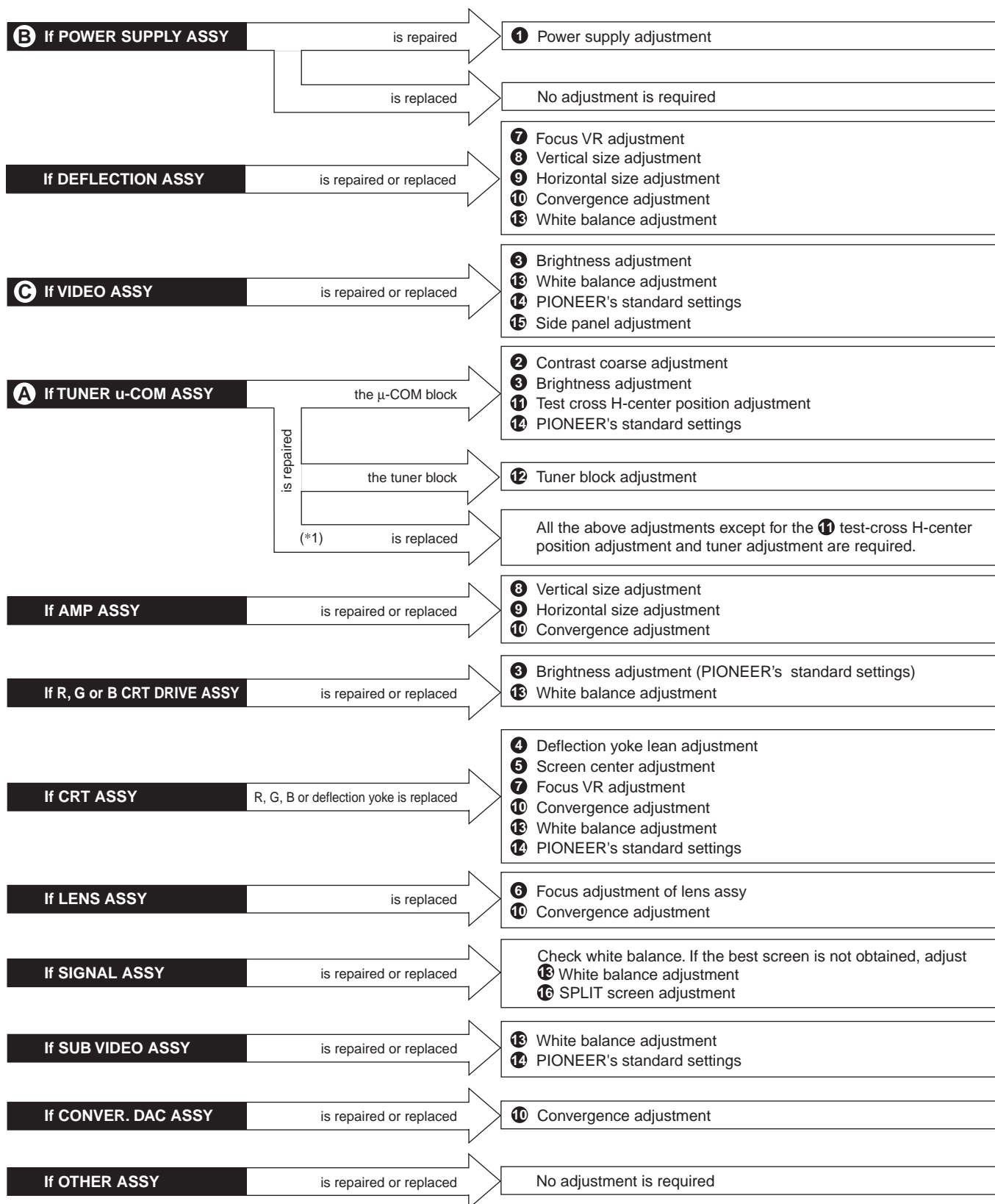
Before removing the anode cable, turn off the power, unplug the AC plug and let the unit discharge for more than 1 minute.



Note: When reconnecting the cable, proceed in the reverse order. After reconnecting, tug on the cable to check that it is secure.

- | | |
|---|---|
| ① Power supply adjustment | ⑪ Test cross H-center position adjustment |
| ② Contrast coarse adjustment | ⑫ Tuner block adjustment |
| ③ Brightness adjustment (PIONEER's standard settings) | ⑬ White balance adjustment |
| ④ Deflection yoke lean adjustment | ⑭ PIONEER's standard settings |
| ⑤ Screen center adjustment | ⑮ Side panel adjustment (Screen size 4:3) |
| ⑥ Focus adjustment of lens assy | ⑯ SPLIT screen adjustment |
| ⑦ Focus VR adjustment | |
| ⑧ Vertical size adjustment | |
| ⑨ Horizontal size adjustment | |
| ⑩ Convergence adjustment | |

■ Assembly Adjustment Location Guide



(*1) When replacing the tuner u-com assembly, mount the IC2204 (24LC32A:E² PROM) on the current assembly to the new one to facilitate adjustments.

■ Factory ADJ Mode

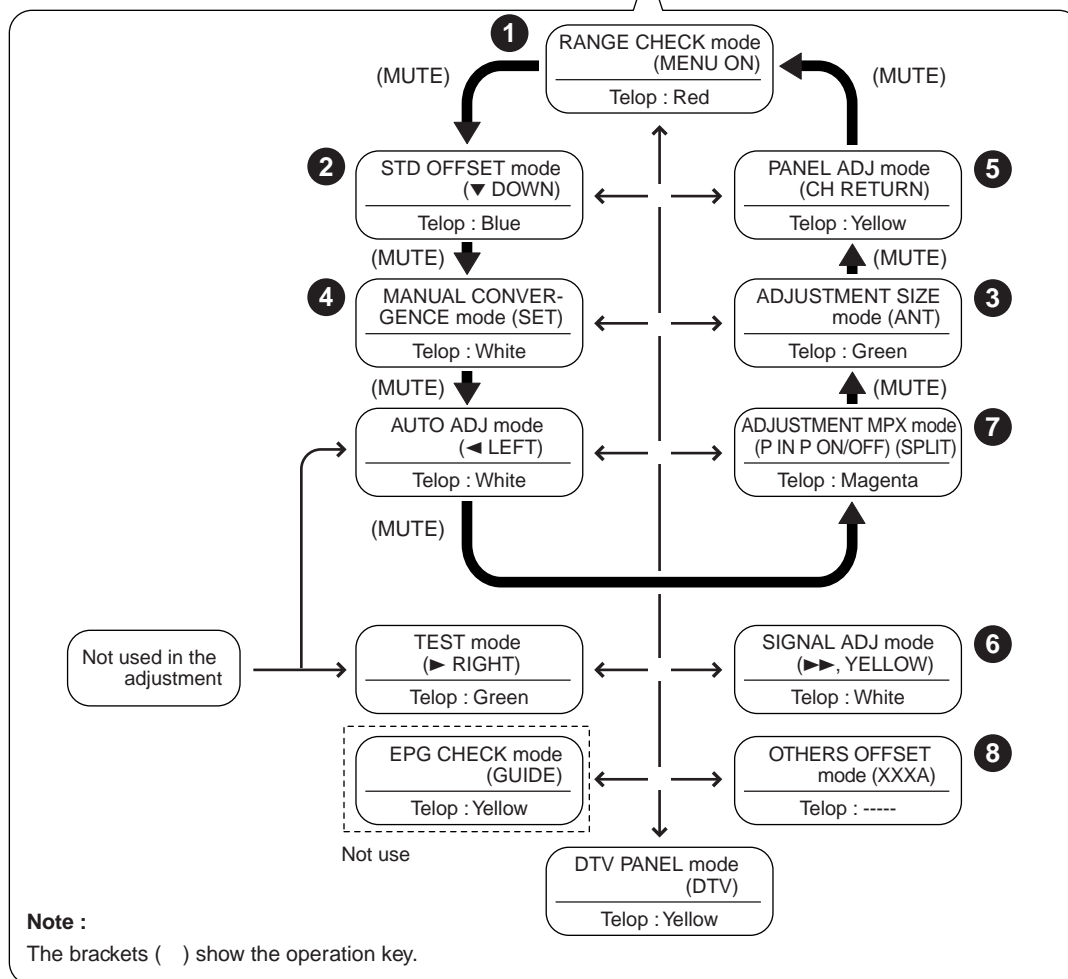
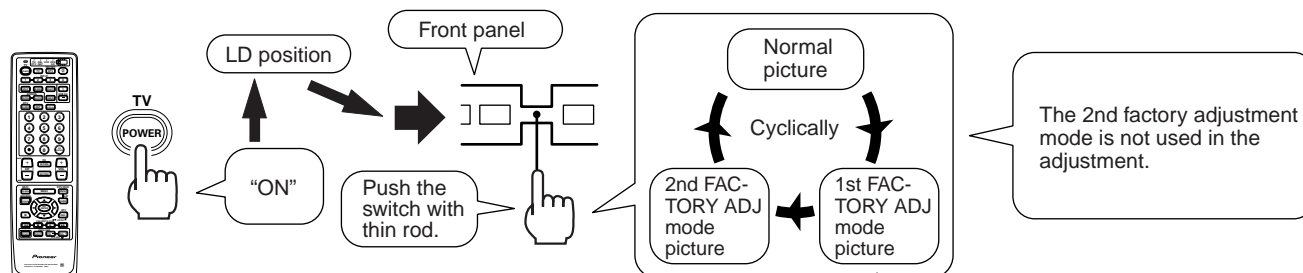
Start Start adjusting

1st FAC Select 1st factory adjustment mode, then adjust.

Select 1st FACTORY ADJ Mode

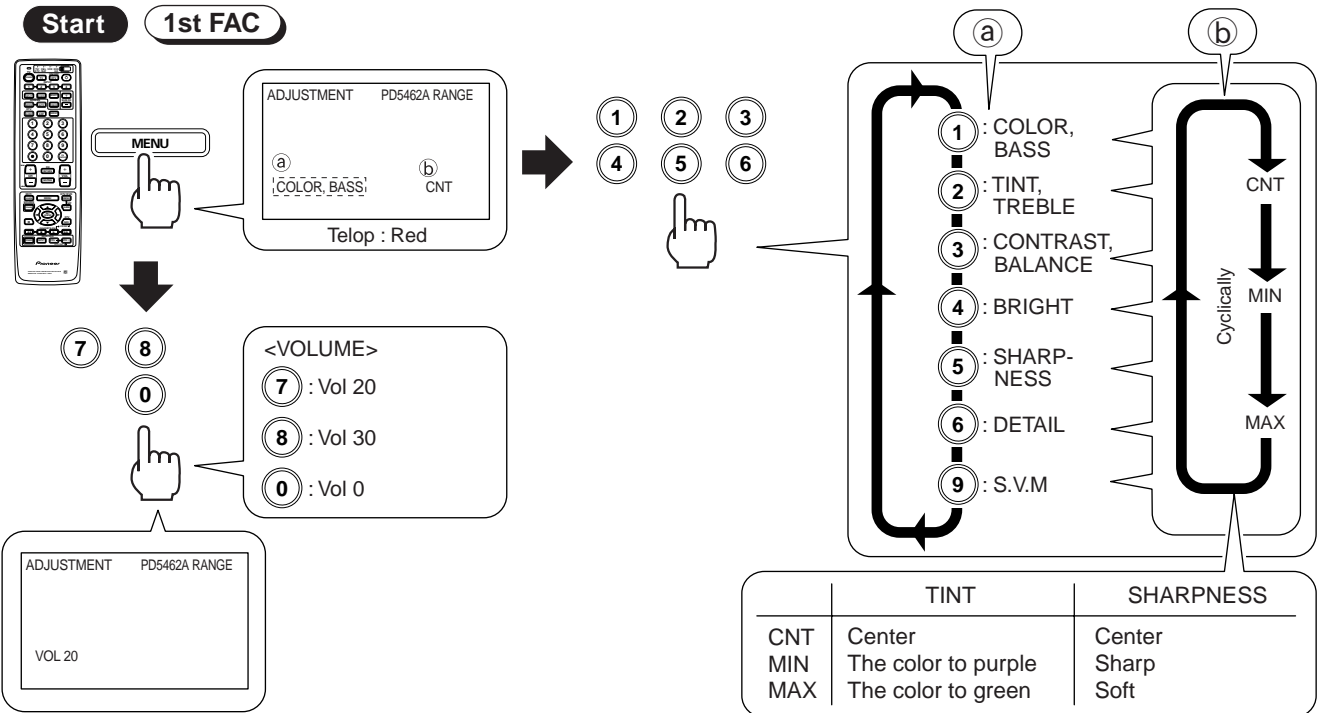
Selecting the mode for adjustment operations.

Start



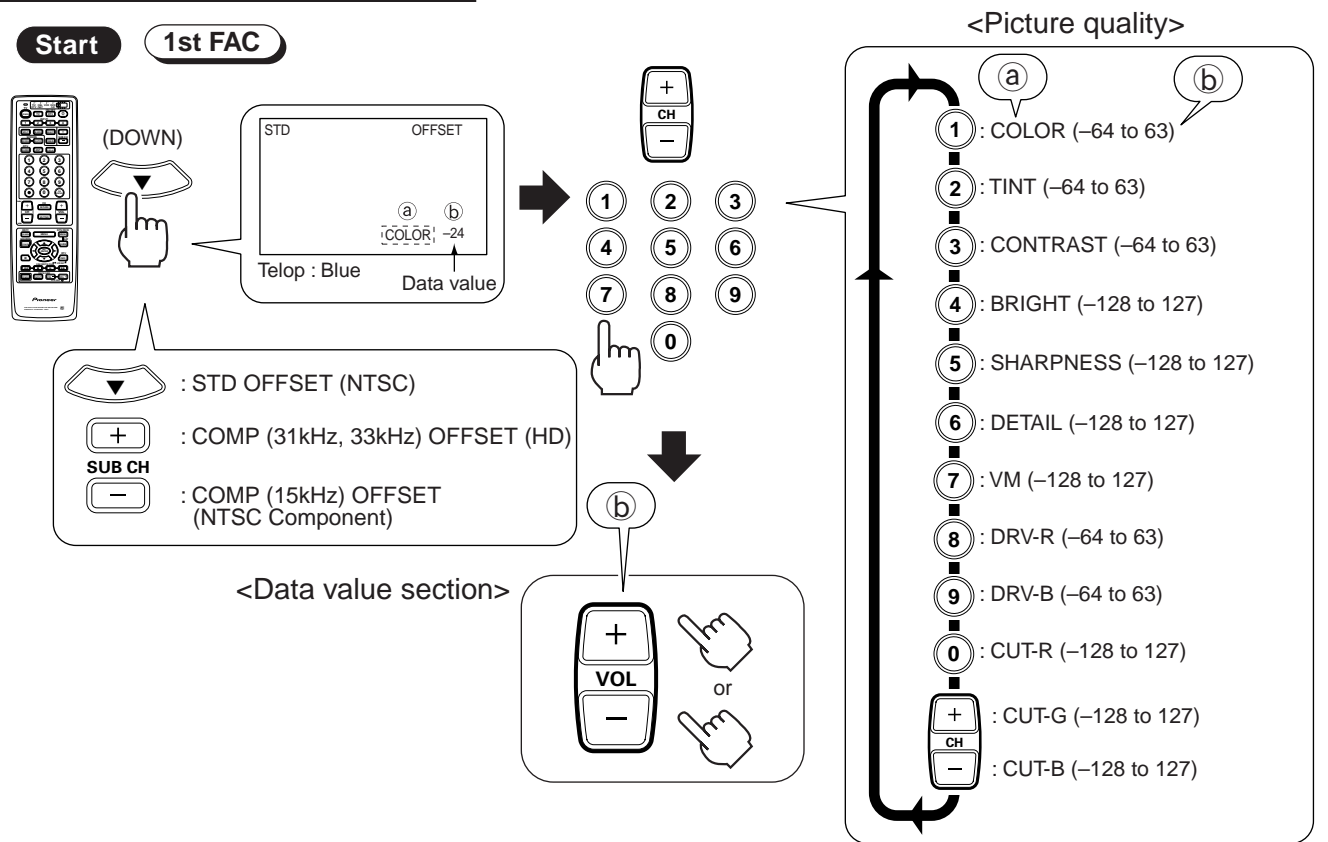
1 Adjustment Range Mode

Picture quality, etc., Change amount check made operating.



2 Adjustment OFFSET Mode

This mode is to set the standard picture quality for a normal picture.

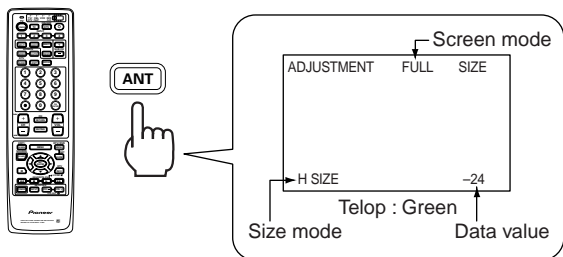


3 Size Mode

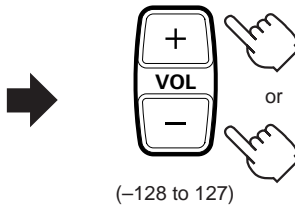
Start

1st FAC

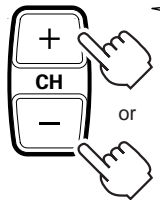
- Mode for roughly adjusting the horizontal and vertical sizes of the main deflection.
- In this mode, the color is green only, screen size is FULL and the contrast is +10.
- The above settings are cleared when this mode is exited.



<Data value section>



<Size mode>



- ①** : H Size
② : V Size
③ : P HA
 CH + : H PHA (31 kHz)
 CH - : H PHA (33 kHz)
- For service



- ⑥ : FULL (HD) H SIZE and fixed value D can be varied.

<Screen mode>

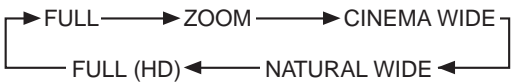


Table on H SIZE and V SIZE data

Picture quality mode	H SIZE	V SIZE
NATURAL	A	B
ZOOM	A	B
CINEMA	A	B
FULL	A	B
FULL (MD)	A+D	B

A, B: are adjustment values.
D: Fixed value.

Table on H PHA data

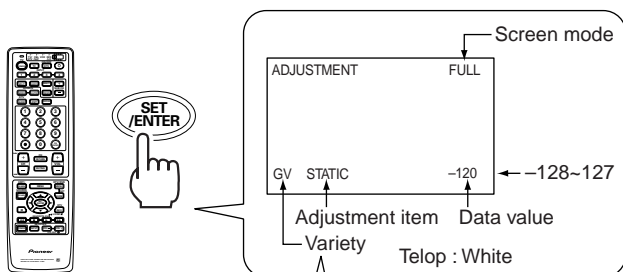
	Component input (INPUT1, INPUT2)			DTV	Others (NTSC system)
	15 kHz	31 kHz	33 kHz		
PHA	C	E	F	G	C

C: Adjustment value
G: Fixed value
E, F: Fixed value + arbitrary service values

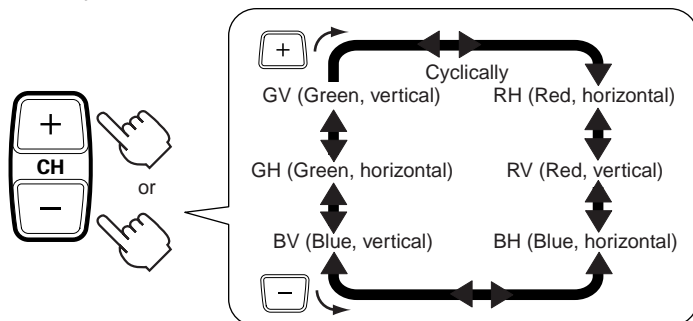
4 Convergence Setting Mode

Start

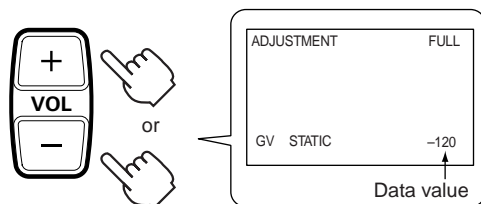
1st FAC



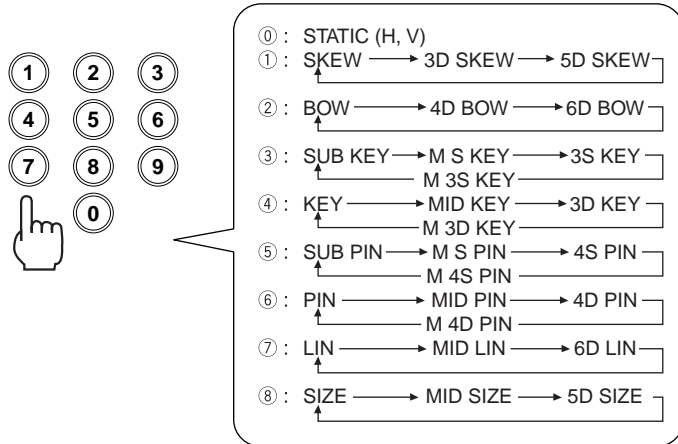
<Variety section>



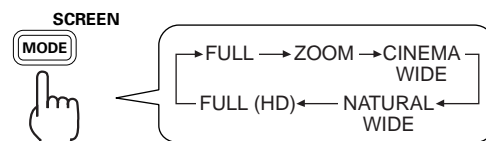
<Data value section>



<Adjustment item section>



<Screen mode>



<CRT control>

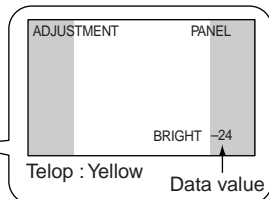


5 Panel Adjustment Mode

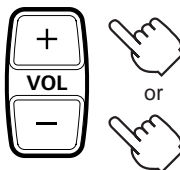
Start

1st FAC

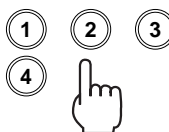
- Mode for adjusting the brightness, width, and position of the gray part (panel) of the 4:3 normal screen.



<Data value section>



<Adjustment item section>



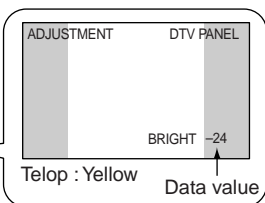
- ① : BRIGHT (–64 to 63)
- ② : CONTRAST (–64 to 63)
- ③ : WIDTH (–128 to 127)
- ④ : POSITION (–128 to 127)

6 DTV Panel Adjustment Mode (When option is mounted)

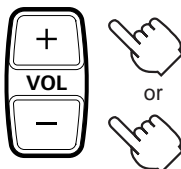
Start

1st FAC

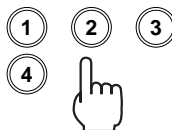
- Mode for adjusting the brightness, width, and position of the gray part (panel) of the 4:3 normal screen of the DTV tuner.



<Data value section>



<Adjustment item section>



- ① : BRIGHT (–64 to 63)
- ② : CONTRAST (–64 to 63)
- ③ : WIDTH (–128 to 127)
- ④ : POSITION (–128 to 127)

7 Adjustment MPX Mode

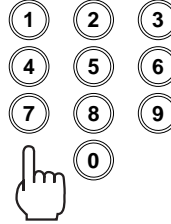
For adjusting the TV tuner MPX decoder section

Start

1st FAC



ADJUSTMENT				MPX FE 1	
1 ATT	9	5 SAP LPF	8		
2 ST VCO	27	6 WIDE BAN	12		
3 SAP VC	10	7 SPECTRA	23		
4 ST LPF	26				
00001					
Telop : Magenta					



Auto adjust

ADJUSTMENT				MPX FE 1	
1 ATT	9	5 SAP LPF	8		
2 ST VCO	29	6 WIDE BAN	12		
3 SAP VC	9	7 SPECTRA	21		
4 ST LPF	30				
00001					
COMPLETE !					
Yellow					

"NG"



ADJUSTMENT				MPX FE 1	
1 ATT	9	5 SAP LPF	8		
2 ST VCO	25	6 WIDE BAN	12		
3 SAP VC	8	7 SPECTRA	23		
4 ST LPF	30				
00001					
TRY AGAIN !!					
Red					

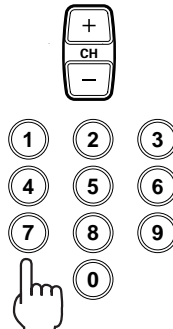
8 Others OFFSET Mode

Start

1st FAC



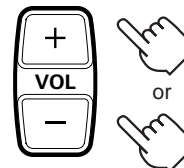
Picture quality mode	
MOVIE	OFFSET
(a)	(b)
COLOR	-24
Data value	



<Picture quality>

- 1 : COLOR (-64 to 63)
- 2 : TINT (-64 to 63)
- 3 : CONTRAST (-64 to 63)
- 4 : BRIGHT (-128 to 127)
- 5 : SHARPNESS (-128 to 127)
- 6 : DETAIL (-128 to 127)
- 7 : VM (-128 to 127)
- 8 : DRV-R (-64 to 63)
- 9 : DRV-B (-64 to 63)
- 0 : CUT-R (-128 to 127)
- + : CUT-G (-128 to 127)
- : CUT-B (-128 to 127)

<Data value section>



OFFSET MODE

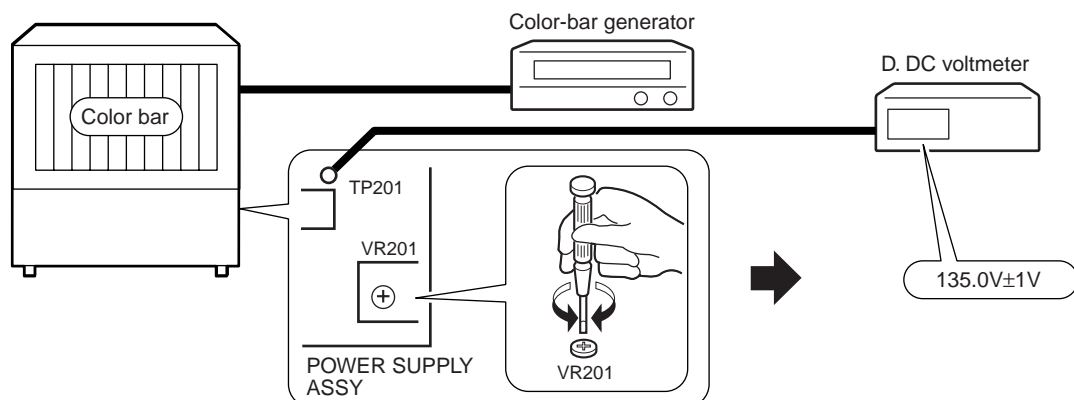
Direct Key	Screen Display	Picture quality mode
(Blue)	MOVIE	MOVIE OFFSET MODE
(Green)	GAME	GAME OFFSET MODE
(Red)	TV	TV OFFSET MODE
DTV INFO	COLOR TEMP (STD)	COLOR TEMP LOW for STD & (GAME) OFFSET MODE
DTV MENU	COLOR TEMP (MOVIE)	COLOR TEMP LOW for MOVIE OFFSET MODE

■ Adjustment

1 Power supply adjustment

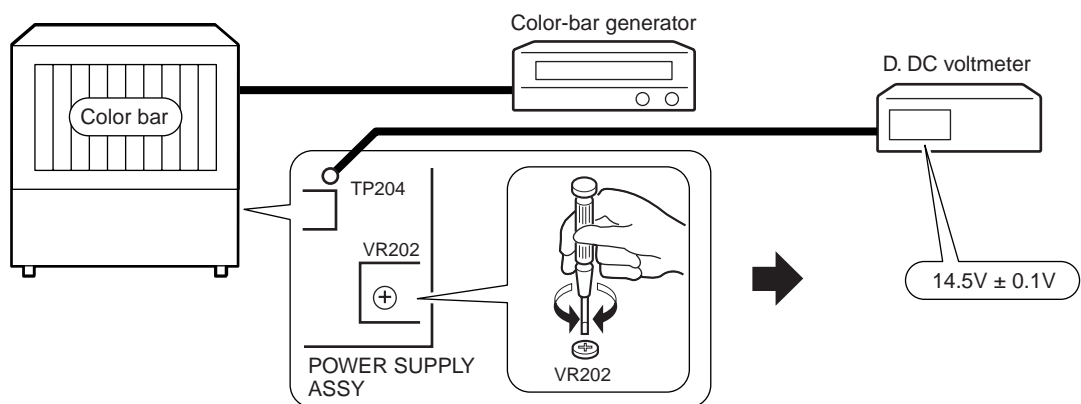
1-1 135V Power supply adjustment

Start



1-2 14.5V Power supply adjustment

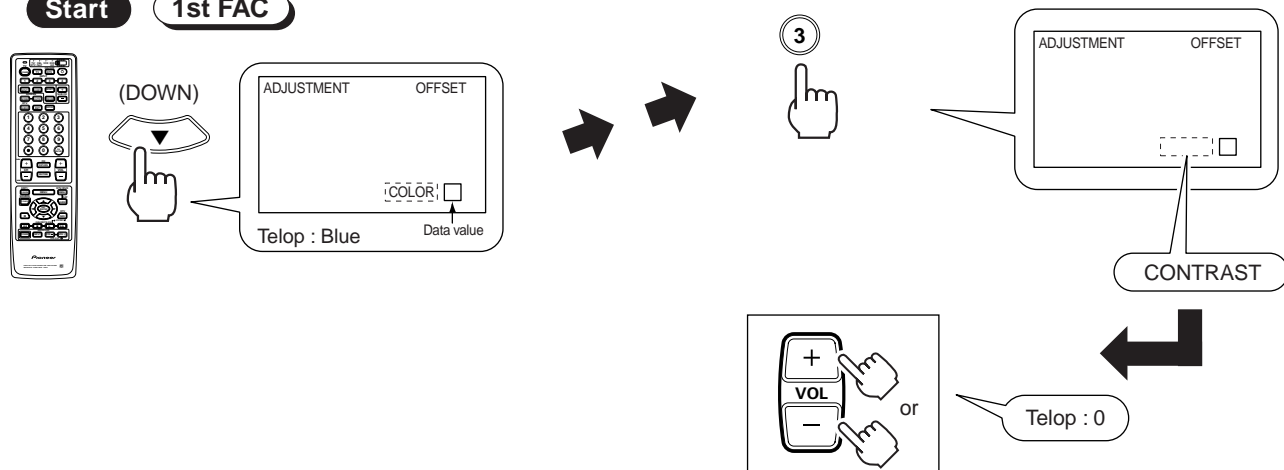
Start



2 Contrast coarse adjustment

Start

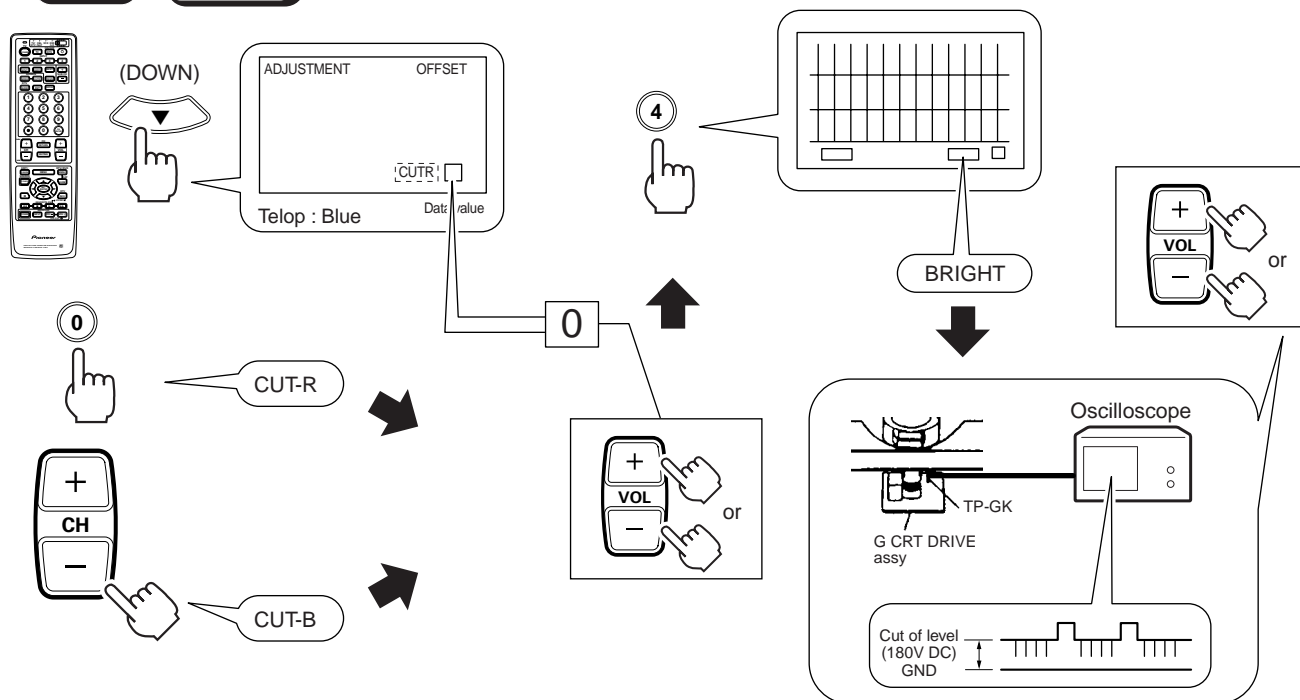
1st FAC



3 Brightness adjustment (PIONEER's standard settings)

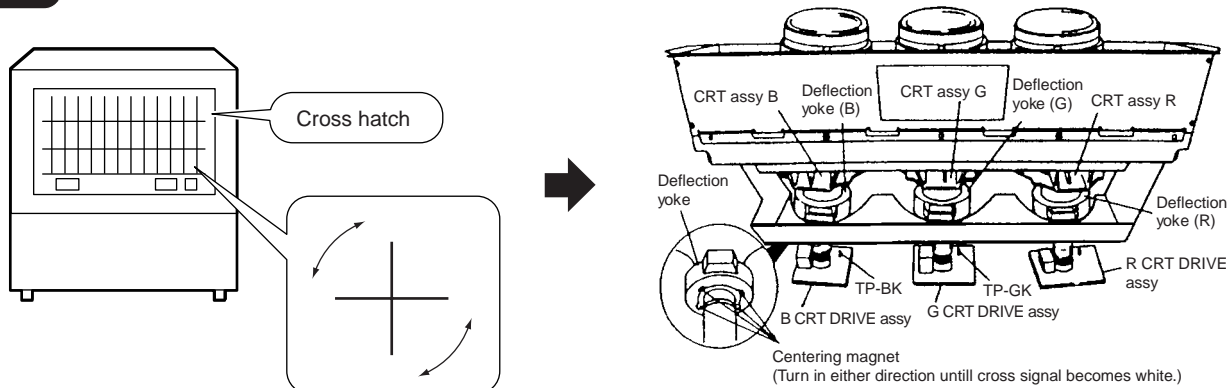
Start

1st FAC



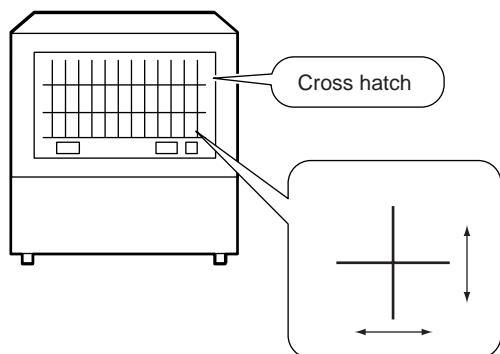
4 Deflection yoke lean adjustment

Start



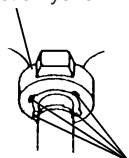
5 Screen center adjustment

Start



- For Red or Blue adjustment, turn 1st FACTORY ADJ mode ON and then OFF to place the convergence POSITION at the center of the adjustable range.
- Move the centering magnet of the deflection yoke for the replaced color so that the horizontal and vertical lines at the center of the screen align with the lines for a color not replaced.

Deflection yoke

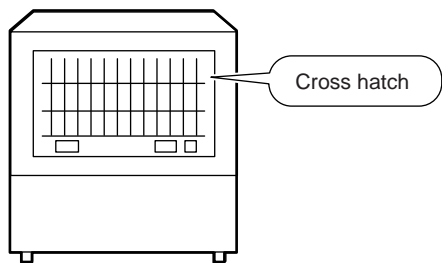


Centering magnet

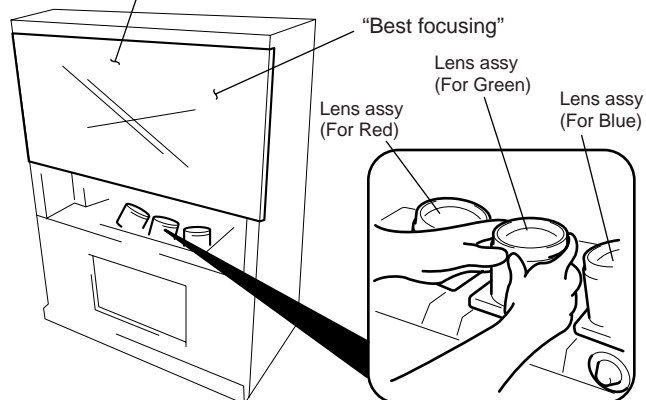
(Turn in either direction until cross signal becomes white.)

6 Focus adjustment of lens assy

Start

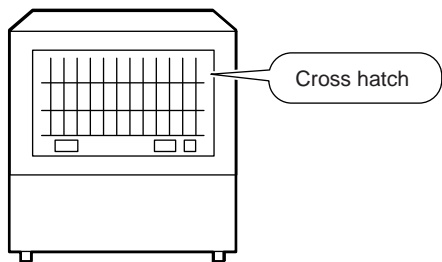


Translucent paper such as tracing paper

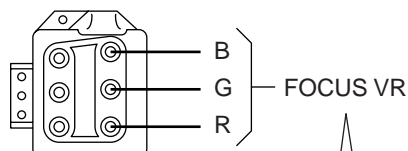


7 Focus VR adjustment

Start



FOCUS VR (VR1)



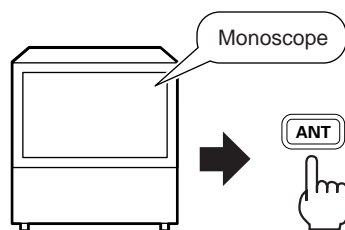
FOCUS VR

Turn the focus VR for best focusing.

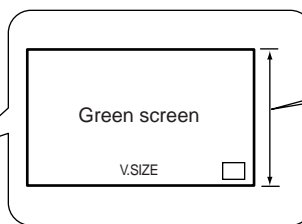
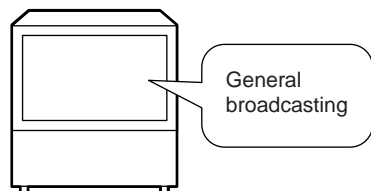
8 Vertical size adjustment

Start

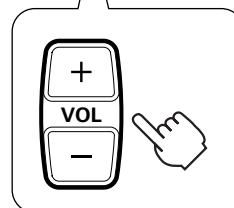
1st FAC



or



91% ± 2%



Note :

After the V. SIZE adjustment, enter the H. SIZE adjustment by pressing "1" key and readjust. Screen mode : FULL

Note :

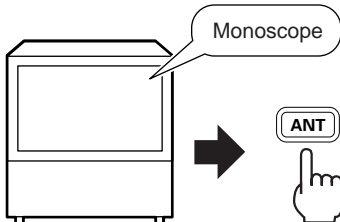
After the H. SIZE adjustment, enter the V. SIZE adjustment by pressing "2" key and readjust.

Adjust the size so that the picture is completely displayed on the screen.

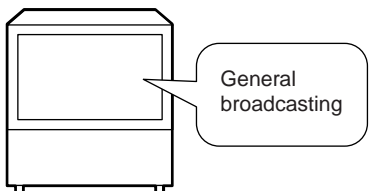
9 Horizontal size adjustment

Start

1st FAC

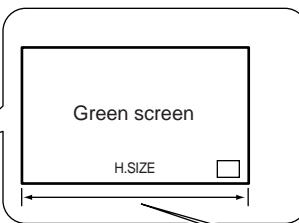


or

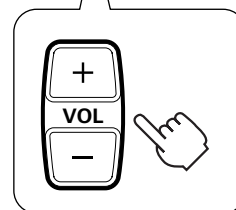


Note :

Screen mode : FULL



91% ± 2%



Adjust the size so that the picture is completely displayed on the screen.

10 Convergence adjustment

10-1 Green line adjustment 1st FAC

- Adjustment in the horizontal direction

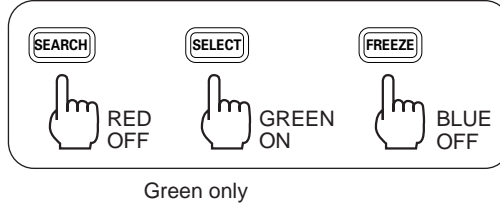
Start

• Horizontal correction adjustment of the green line

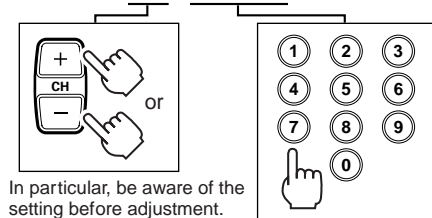
- See ④ Convergence Setting Mode in the Factory ADJ mode.
- Input cross-hatch signals to this device's video input terminal.
- The green line serves as the reference line in the adjustment of red and blue. Perform this accurately. Adjust the convergence of the green line using only green.

Note :

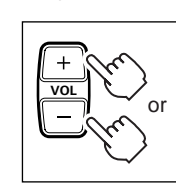
The convergence for this device must be adjusted for each screen size FULL (NTSC, 4:3 NORMAL), ZOOM (NTSC), CIN-EMA WIDE (NTSC), NATURAL WIDE (NTSC), FULL (HD) (33.75 kHz, DTV).



• Select the Adjustment item GH - STATIC



• Adjust the Data value

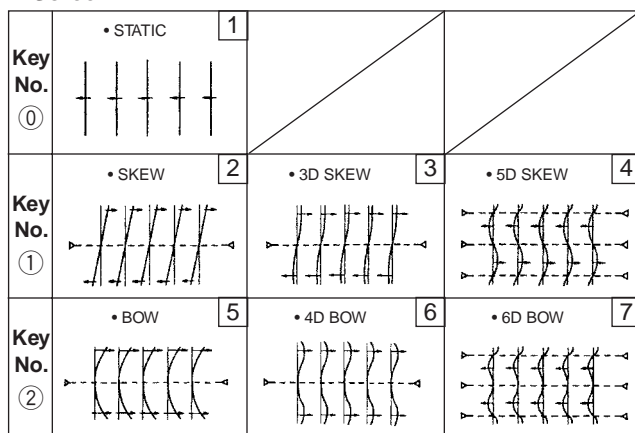


Note :

- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of H-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust H-STATIC.

	Adjustment Items	Screen No.	Adjustment Method
Center-line Adjustment	1 GH-STATIC	1	• Adjust the center vertical line to the screen center position.
	2 GH-SKEW	2	• Adjust so that the green vertical line at the center becomes a straight line with neither distortion nor tilting.
	3 GH-BOW	5	
	4 (GH-3D SKEW)	3	Note: Do not adjust items 4 to 7.
	5 (GH-4D BOW)	6	
	6 (GH-5D SKEW)	4	
	7 (GH-6D BOW)	7	
Line-interval Adjustment	1 GH-SIZE	8	• Adjust so that the intervals of the green vertical lines in the right and left sections of the screen are symmetrical and correct.
	2 GH-MID SIZE	9	
	3 GH-LIN	11	
	4 GH-MID LIN	12	
	5 (GH-5D SIZE)	10	Note: Do not adjust items 5 and 6.
	6 (GH-6D LIN)	13	

■ Screen



• Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

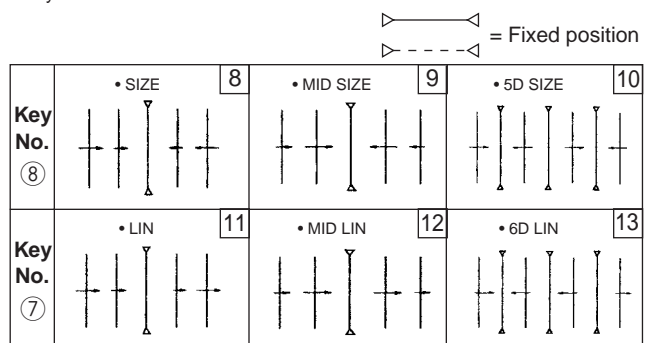
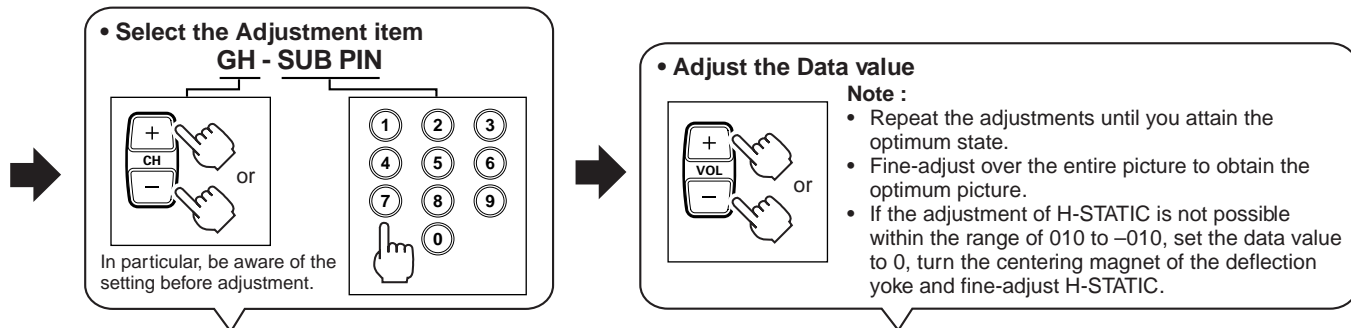


Fig. 1. Horizontal correction (1)

● Horizontal correction adjustment of the green line



Adjustment Items		Screen No.	Adjustment Method
Lean Adjustment	1	GH-KEY	Adjust so that the vertical green lines on the left and right sides of the screen do not tilt.
	2	GH-MID KEY *1	
	3	GH-SUB KEY	
	4	GH-M S KEY *1	
Distortion Adjustment	1	GH-3D KEY	Adjust so that the vertical green lines on the left and right sides of the screen become straight with no distortion.
	2	(GH-M 3D KEY) *1	
	3	GH-3DS KEY	
	4	(GH-M 3S KEY) *1	
	5	GH-PIN	
	6	GH-MID PIN *1	
	7	GH-SUB PIN	
	8	GH-M S PIN *1	
	9	GH-4D PIN	
	10	(GH-M 4D PIN) *1	
	11	GH-4DS PIN	
	12	(GH-M 4S PIN) *1	
			Note: Do not adjust items 2, 4, 10 and 12.

*1 : Adjust taking note of the green vertical lines at 1/4 of the left and right sides of the screen.

■ Screen

Key No.	KEY 15	MID KEY 16	3D KEY 17	M 3D KEY 18
④				
Key No.	SUB KEY 19	M S KEY 20	3DS KEY 21	M 3S KEY 22
③				
Key No.	PIN 23	MID PIN 24	4D PIN 25	M 4D PIN 26
⑥				
Key No.	SUB PIN 27	M S PIN 28	4DS PIN 29	M 4S PIN 30
⑤				

● Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.


 = Fixed position

Fig. 2. Horizontal correction (2)

10-2 Green line adjustment 1st FAC

• Adjustment in the vertical direction

Start

• Vertical correction adjustment of the green line

• Select the Adjustment item
GV - STATIC

In particular, be aware of the setting before adjustment.

• Adjust the Data value

Note :

- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of V-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust V-STATIC.

Adjustment Items			Screen No.	Adjustment Method
Center-line Adjustment	1	GV-STATIC	1	• Adjust the center horizontal line to the center of the screen.
	2	GV-SKEW	2	
	3	GV-BOW	5	• Adjust so that the green vertical line at the center becomes a straight line with neither distortion nor tilting.
	4	(GV-3D SKEW)	3	
	5	(GV-4D BOW)	6	
	6	(GV-5D SKEW)	4	Note: Do not adjust items 6 and 7.
	7	(GV-6D BOW)	7	
Line-interval Adjustment	1	GV-SIZE	8	• Adjust so that the intervals of the green horizontal lines at the top and bottom of the screen are symmetrical and correct.
	2	GV-LIN	11	
	3	GV-MID SIZE	9	
	4	GV-MID LIN	12	Note: Do not adjust items 5 and 6.
	5	(GV-5D SIZE)	10	
	6	(GV-6D LIN)	13	

■ Screen

Key No. 0

Key No. 1

Key No. 2

△ = Fixed position

• Screen's changes in the vertical direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

Key No. 8

Key No. 7

Fig. 3. Vertical correction (1)

10-3 Red line adjustment

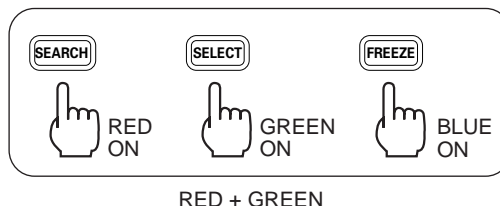
1st FAC

- Adjustment in the horizontal direction

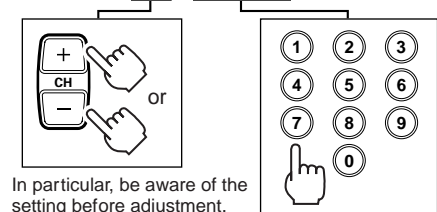
Start

Horizontal correction adjustment of the red line

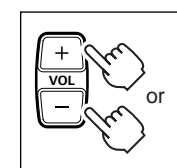
- See ④ Convergence Setting Mode in the Factory ADJ mode.
- Input cross-hatch signals to this device's video input terminal.
- Adjust the convergence of the red line using the green and red lines.



Select the Adjustment item RH - STATIC



Adjust the Data value

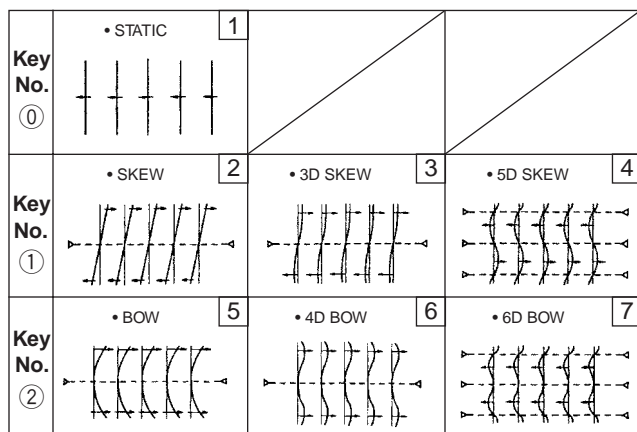


Note :

- Overlap the green line with the red line, so that the line becomes yellow.
- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment is of H-STATIC not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust H-STATIC.

	Adjustment Item	Screen No.	Adjustment Method
Center-line Adjustment	1 RH-STATIC	1	Adjust the red center to match the green center.
	2 RH-SKEW	2	Overlap the red vertical line at the center with the green vertical line.
	3 RH-BOW	5	
	4 (RH-3D SKEW)	3	
	5 (RH-4D BOW)	6	Note: Do not adjust items 6 and 7.
	6 (RH-5D SKEW)	4	
	7 (RH-6D BOW)	7	
Line-interval Adjustment	1 RH-SIZE	8	Adjust the interval at the center of the red vertical line to the interval of the green vertical line.
	2 RH-LIN	11	
	3 RH-MID SIZE	9	
	4 RH-MID LIN	12	Note: Do not adjust items 5 and 6.
	5 (RH-5D SIZE)	10	
	6 (RH-6D LIN)	13	

Screen



Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

↔ = Fixed position

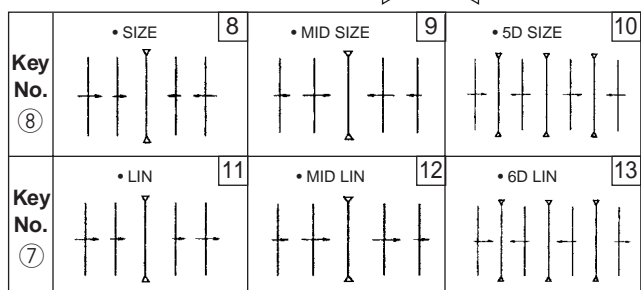
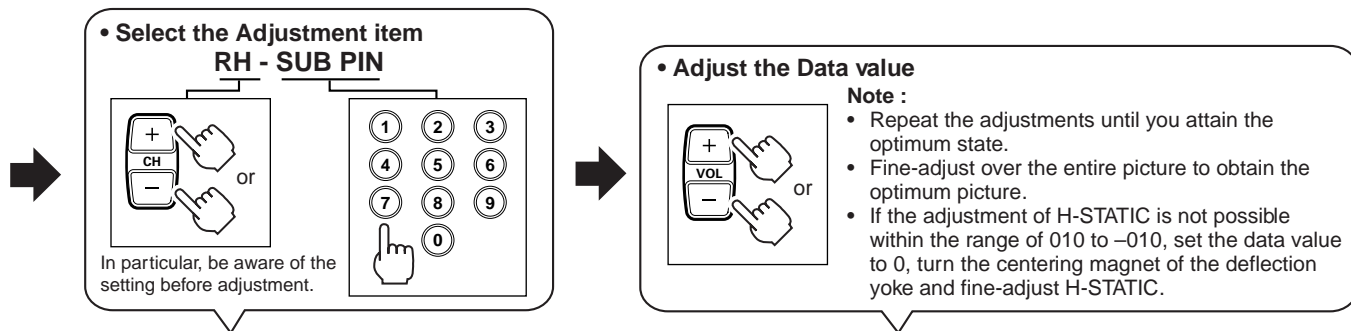


Fig. 5. Horizontal correction (1)

● Horizontal correction adjustment of the red line



Adjustment Item		Screen No.	Adjustment Method
Lean Adjustment	1	RH-KEY	15
	2	RH-MID KEY *3	16
	3	RH-SUB KEY	19
	4	RH-M S KEY *3	20
Distortion Adjustment	1	RH-3D KEY	17
	2	(RH-M 3D KEY) *3	18
	3	RH-3DS KEY	21
	4	(RH-M 3S KEY) *3	22
	5	RH-PIN	23
	6	RH-MID PIN *3	24
	7	RH-4D PIN	25
	8	(RH-M 4D PIN) *3	26
	9	RH-SUB PIN	27
	10	RH-M S PIN *3	28
	11	(RH-4DS PIN) *3	29
	12	RH-M 4S PIN	30
			<p>• Adjust so that the red vertical lines at the top and bottom of the screen do not tilt.</p> <p>• Adjust so that the red vertical line at the top and bottom of the screen overlap with the green vertical lines, and becomes a straight line with no distortion.</p> <p>Note: Do not adjust items 2, 4, 8 and 11.</p>

*3 : Adjust taking note of the red horizontal lines at 1/4 of the left and right sides of the screen.

■ Screen

Key No. ④	• KEY 15	• MID KEY 16	• 3D KEY 17	• M 3D KEY 18
Key No. ③	• SUB KEY 19	• M S KEY 20	• 3DS KEY 21	• M 3S KEY 22
Key No. ⑥	• PIN 23	• MID PIN 24	• 4D PIN 25	• M 4D PIN 26
Key No. ⑤	• SUB PIN 27	• M S PIN 28	• 4DS PIN 29	• M 4S PIN 30

● Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

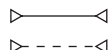
 = Fixed position

Fig. 6. Horizontal correction (2)

10-4 Red line adjustment

1st FAC

• Adjustment in the vertical direction

Start

• Vertical correction adjustment of the red line

• Select the Adjustment item

RV - STATIC

+

CH

-

or

1

2

3

4

5

6

7

8

9

0

In particular, be aware of the setting before adjustment.

• Adjust the Data value

+

VOL

-

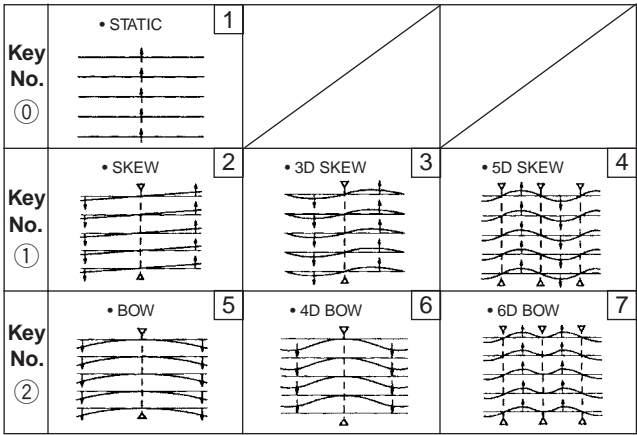
or

Note :

- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of V-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust V-STATIC.

	Adjustment Item	Screen No.	Adjustment Method
Center-line Adjustment	1 RV-STATIC	1	• Adjust the red center to match the green center.
	2 RV-SKEW	2	
	3 RV-BOW	5	
	4 RV-3D SKEW	3	• Adjust so that the red horizontal line at the center overlaps with the green horizontal line.
	5 RV-4D BOW	6	
	6 (RV-5D SKEW)	4	Note: Do not adjust items 6 to 7.
	7 (RV-6D BOW)	7	
Line-interval Adjustment	1 RV-SIZE	8	• Adjust the interval at the center of the red vertical line to the interval of the green vertical line.
	2 RV-LIN	11	
	3 RV-MID SIZE	9	
	4 RV-MID LIN	12	
	5 (RV-5D SKEW)	10	Note: Do not adjust items 5 and 6.
	6 (RV-6D LIN)	13	

■ Screen



△ ——— △ = Fixed position
△ - - - - △

● Screen's changes in the vertical direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

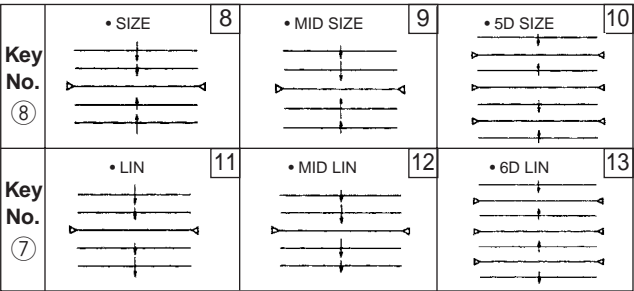
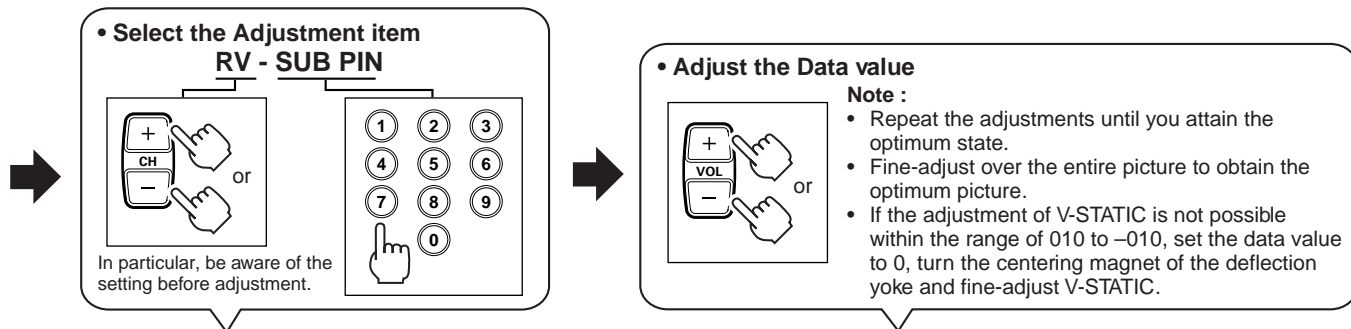


Fig. 7. Vertical correction (1)

● Vertical correction adjustment of the red line



Adjustment Item		Screen No.	Adjustment Method
Lean Adjustment	1	RV-KEY	<div style="border: 1px solid black; padding: 5px;"> <p>Adjust so that the red horizontal lines at the left and right of the screen do not tilt.</p> </div>
	2	RV-MID KEY ^{*4}	
	3	RV-SUB KEY	
	4	RV-M S KEY ^{*4}	
Distortion Adjustment	1	RV-3D KEY	<div style="border: 1px solid black; padding: 5px;"> <p>Adjust so that the red horizontal lines at the left and right of the screen overlap with the green horizontal lines, and become a straight line with no distortion.</p> </div> <p>Note: Do not adjust items 2, 4, 8 and 12.</p>
	2	(RV-M 3D KEY) ^{*4}	
	3	RV-3DS KEY	
	4	(RV-M 3S KEY) ^{*4}	
	5	RV-PIN	
	6	RV-MID PIN ^{*4}	
	7	RV-4D PIN	
	8	(RV-M 4D PIN) ^{*4}	
	9	RV-SUB PIN	
	10	RV-M S PIN ^{*4}	
	11	RV-4DS PIN	
	12	(RV-M 4S PIN) ^{*4}	

*4 : Adjust taking note of the red horizontal lines at 1/4 of the left and right sides of the screen.

■ Screen

Key No. ④	• KEY 15	• MID KEY 16	• 3D KEY 17	• M 3D KEY 18
Key No. ③	• SUB KEY 19	• M S KEY 20	• 3DS KEY 21	• M 3S KEY 22
Key No. ⑥	• PIN 23	• MID PIN 24	• 4D PIN 25	• M 4D PIN 26
Key No. ⑤	• SUB PIN 27	• M S PIN 28	• 4DS PIN 29	• M 4S PIN 30

● Screen's changes in the vertical direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

= Fixed position
 = Fixed position

Fig. 8. Vertical correction (2)

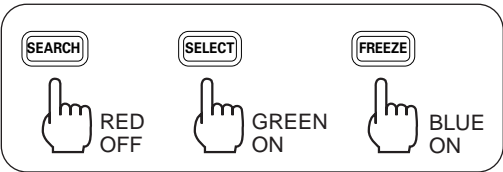
10-5 Blue line adjustment 1st FAC

• Adjustment in the horizontal direction

Start

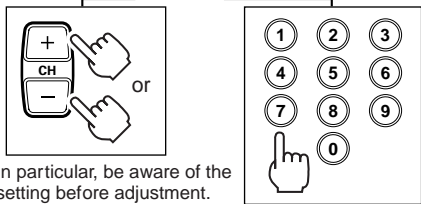
● Horizontal correction adjustment of the blue line

- See ④ Convergence Setting Mode in the Factory ADJ mode.
- Input cross-hatch signals to this device's video input terminal.



GREEN + BLUE

• Select the Adjustment item
BH - STATIC



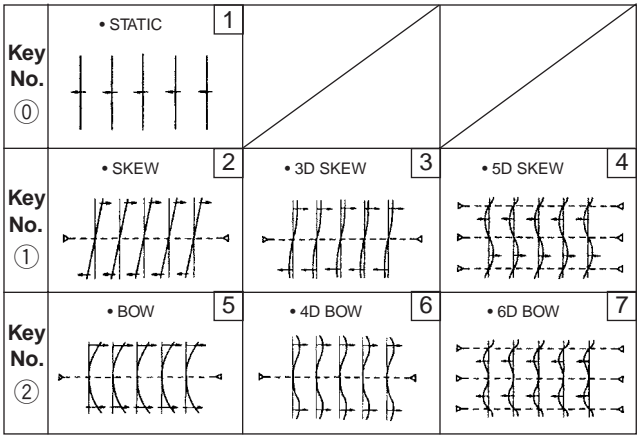
• Adjust the Data value

Note :

- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of H-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust H-STATIC.

Adjustment Item			Screen No.	Adjustment Method
Center-line Adjustment	1	BH-STATIC	1	• Adjust the blue center to match the green center.
	2	BH-SKEW	2	
	3	BH-BOW	5	• Overlap the blue vertical line at the center with the green vertical line.
	4	BH-3D SKEW	3	
	1	BH-4D BOW	6	
	6	BH-5D SKEW	4	Note: Do not adjust items 6 and 7.
	7	BH-6D BOW	7	
Line-interval Adjustment	1	BH-SIZE	8	• Adjust the interval at the center of the blue vertical line to the interval of the green vertical line.
	2	BH-LIN	11	
	3	BH-MID SIZE	9	
	4	BH-MID LIN	12	
	5	(BH-5D SIZE)	10	Note: Do not adjust items 5 and 6.
	6	(BH-6D LIN)	13	

■ Screen



● Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

▷ — ◁ = Fixed position
▷ - - - ◁

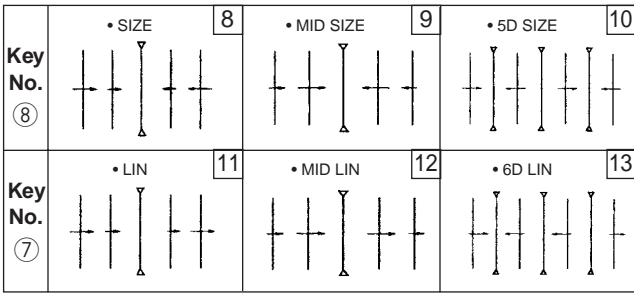
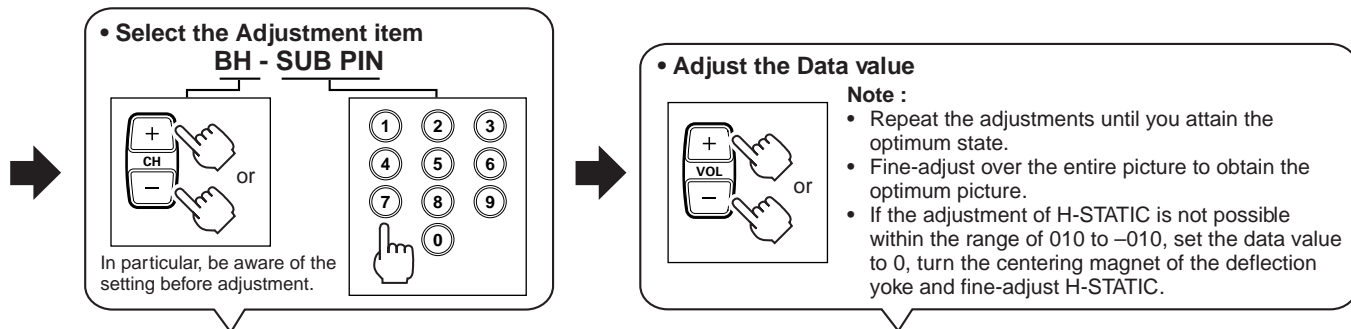


Fig. 9. Horizontal correction (1)

● Horizontal correction and adjustment of blue line



Adjustment Item		Screen No.	Adjustment Method
Lean Adjustment	1	BH-KEY	Adjust so that the blue vertical lines at the top and bottom of the screen do not tilt.
	2	BH-MID KEY *5	
	3	BH-SUB KEY	
	4	BH-M S KEY *5	
Distortion Adjustment	1	BH-3D KEY	Adjust so that the blue vertical lines at the top and bottom of the screen overlap with the green vertical lines, and become a straight line with no distortion.
	2	(BH-M 3D KEY) *5	
	3	BH-3DS KEY	
	4	(BH-M 3S KEY) *5	
	5	BH-PIN	
	6	BH-MID PIN *5	
	7	BH-4D PIN	
	8	(BH-M 4D PIN) *5	
	9	BH-SUB PIN	
	10	BH-M S PIN *5	
	11	BH-4DS PIN	
	12	(BH-M 4S PIN) *5	
			Note: Do not adjust items 2, 4, 8 and 12.

*5 : Adjust taking note of the blue vertical lines at 1/4 of the left and right sides of the screen.

■ Screen

Key No. ④	• KEY 15	• MID KEY 16	• 3D KEY 17	• M 3D KEY 18
Key No. ③	• SUB KEY 19	• M S KEY 20	• 3DS KEY 21	• M 3S KEY 22
Key No. ⑥	• PIN 23	• MID PIN 24	• 4D PIN 25	• M 4D PIN 26
Key No. ⑤	• SUB PIN 27	• M S PIN 28	• 4DS PIN 29	• M 4S PIN 30

● Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

▷ — ◁ = Fixed position
▷ - - ◁ = Fixed position

Fig. 10. Horizontal correction (2)

10-6 Blue line adjustment

1st FAC

• Adjustment in the vertical direction

Start

• Vertical correction adjustment of the blue line

• Select the Adjustment item
BV - STATIC

In particular, be aware of the setting before adjustment.

• Adjust the Data value

Note :

- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of V-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust V-STATIC.

	Adjustment Item	Screen No.	Adjustment Method
Center-line Adjustment	1 BV-STATIC	1	• Adjust the blue center to match the green center.
	2 BV-SKEW	2	
	3 BV-BOW	5	• Adjust so that the blue horizontal line at the center overlaps with the green horizontal line.
	4 BV-3D SKEW	3	
	5 BV-4D BOW	6	
	6 BV-5D SKEW	4	
	7 BV-6D BOW	7	
Line-interval Adjustment	1 BV-SIZE	8	• Adjust the interval at the center of the blue horizontal line to the interval of the green horizontal line.
	2 BV-LIN	11	
	3 BV-MID SIZE	9	
	4 BV-MID LIN	12	
	5 (BV-5D SIZE)	10	Note: Do not adjust items 5 and 6.
	6 (BV-6D LIN)	13	

■ Screen

Key No. 0	• STATIC 1		
Key No. 1	• SKEW 2	• 3D SKEW 3	• 5D SKEW 4
Key No. 2	• BOW 5	• 4D BOW 6	• 6D BOW 7

= Fixed position
 = Fixed position

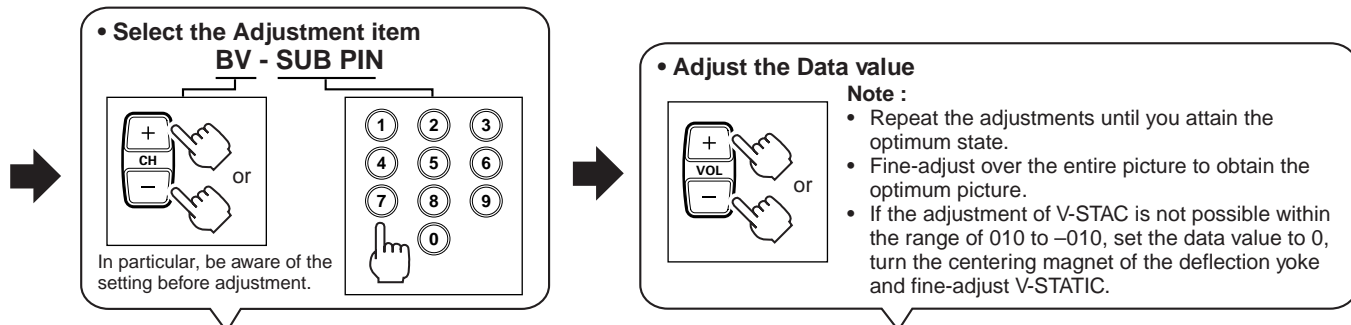
• Screen's changes in the vertical direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

Key No. 8	• SIZE 8	• MID SIZE 9	• 5D SIZE 10
Key No. 7	• LIN 11	• MID LIN 12	• 6D LIN 13

Fig. 11. Vertical correction (1)

● Vertical correction adjustment of the blue line



Adjustment Item		Screen No.	Adjustment Method
Lean Adjustment	1	BV-KEY	[15]
	2	BV-MID KEY *6	
	3	BV-SUB KEY	
	4	BV-M S KEY *6	
Distortion Adjustment	1	BV-3D KEY	[17]
	2	(BV-M 3D KEY) *6	
	3	BV-3DS KEY	
	4	(BV-M 3S KEY) *6	
	5	BV-PIN	
	6	BV-MID PIN *6	
	7	BV-4D PIN	
	8	(BV-M 4D PIN) *6	
	9	BV-SUB PIN	
	10	BV-M S PIN *6	
	11	BV-4DS PIN	
	12	(BV-M 4S PIN) *6	
			• Adjust so that the blue horizontal lines at the left and right of the screen do not tilt.
			• Adjust so that the blue horizontal lines at the left and right of the screen overlap with the green horizontal lines, and become straight lines with no distortion.
			Note: Do not adjust items 2, 4, 8 and 12.

*6 : Adjust taking note of the blue horizontal lines at 1/4 of the left and right sides of the screen

■ Screen

Key No. ④	• KEY	15	• MID KEY	16	• 3D KEY	17	• M 3D KEY	18
Key No. ③	• SUB KEY	19	• M S KEY	20	• 3DS KEY	21	• M 3S KEY	22
Key No. ⑥	• PIN	23	• MID PIN	24	• 4D PIN	25	• M 4D PIN	26
Key No. ⑤	• SUB PIN	27	• M S PIN	28	• 4DS PIN	29	• M 4S PIN	30

● Screen's changes in the vertical direction when manual convergence adjustment is mode

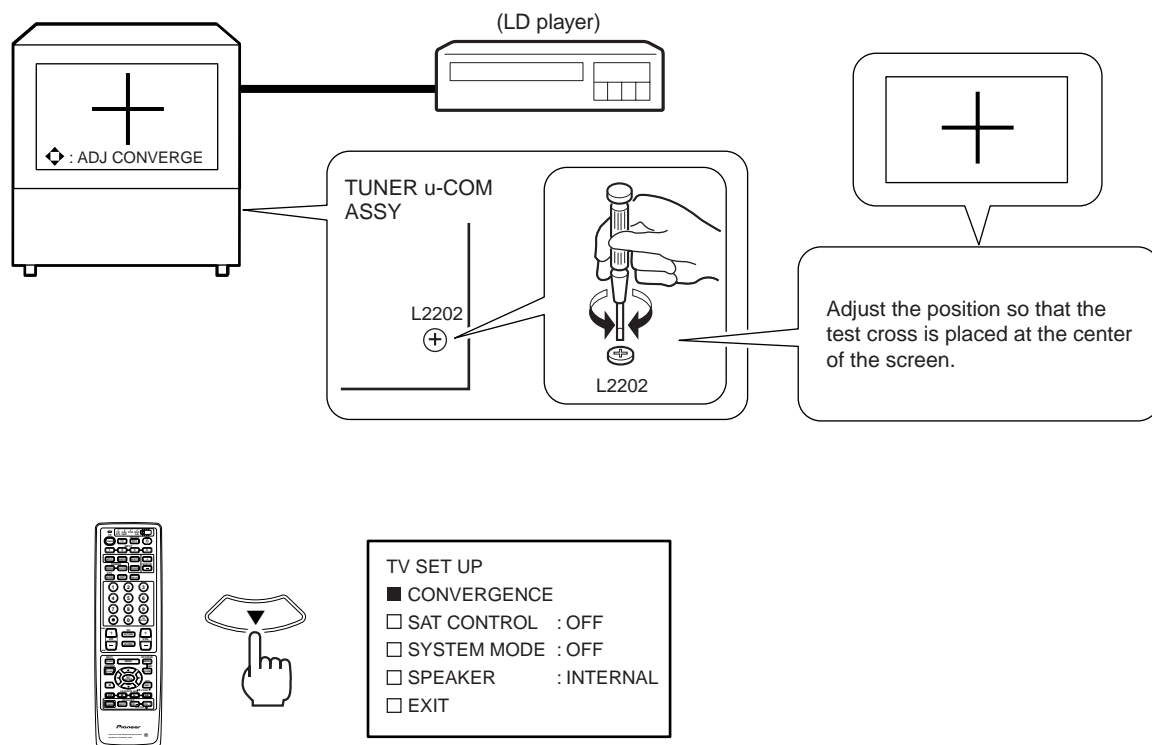
The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

= Fixed position

Fig. 12. Vertical correction (2)

11 Test cross H-center position adjustment

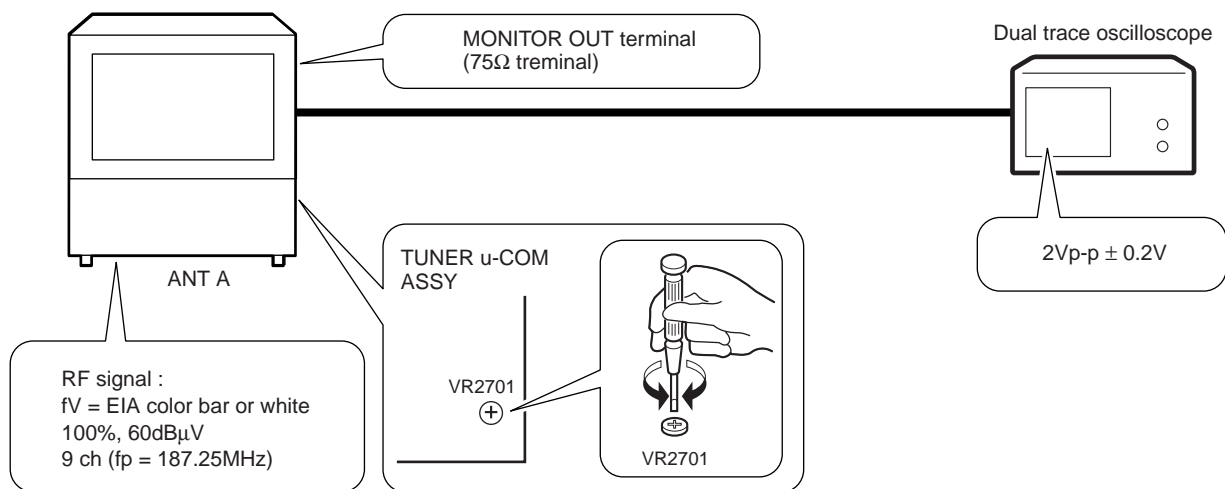
Start



12 Tuner block adjustment

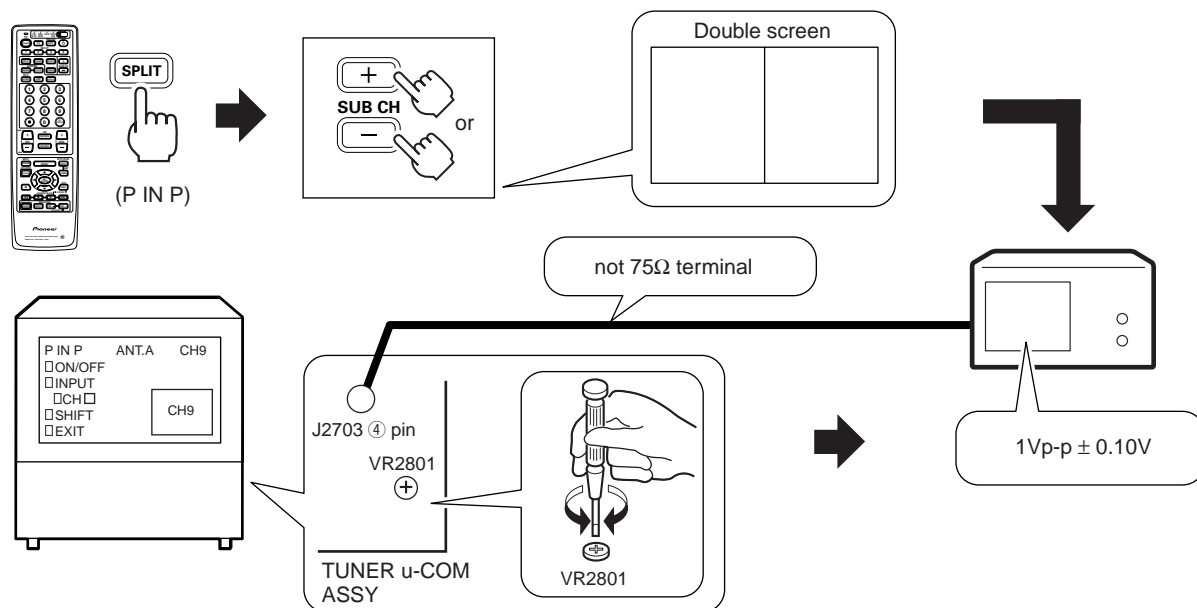
12-1 Video level adjustment ①

Start



12-2 Video level adjustment ②

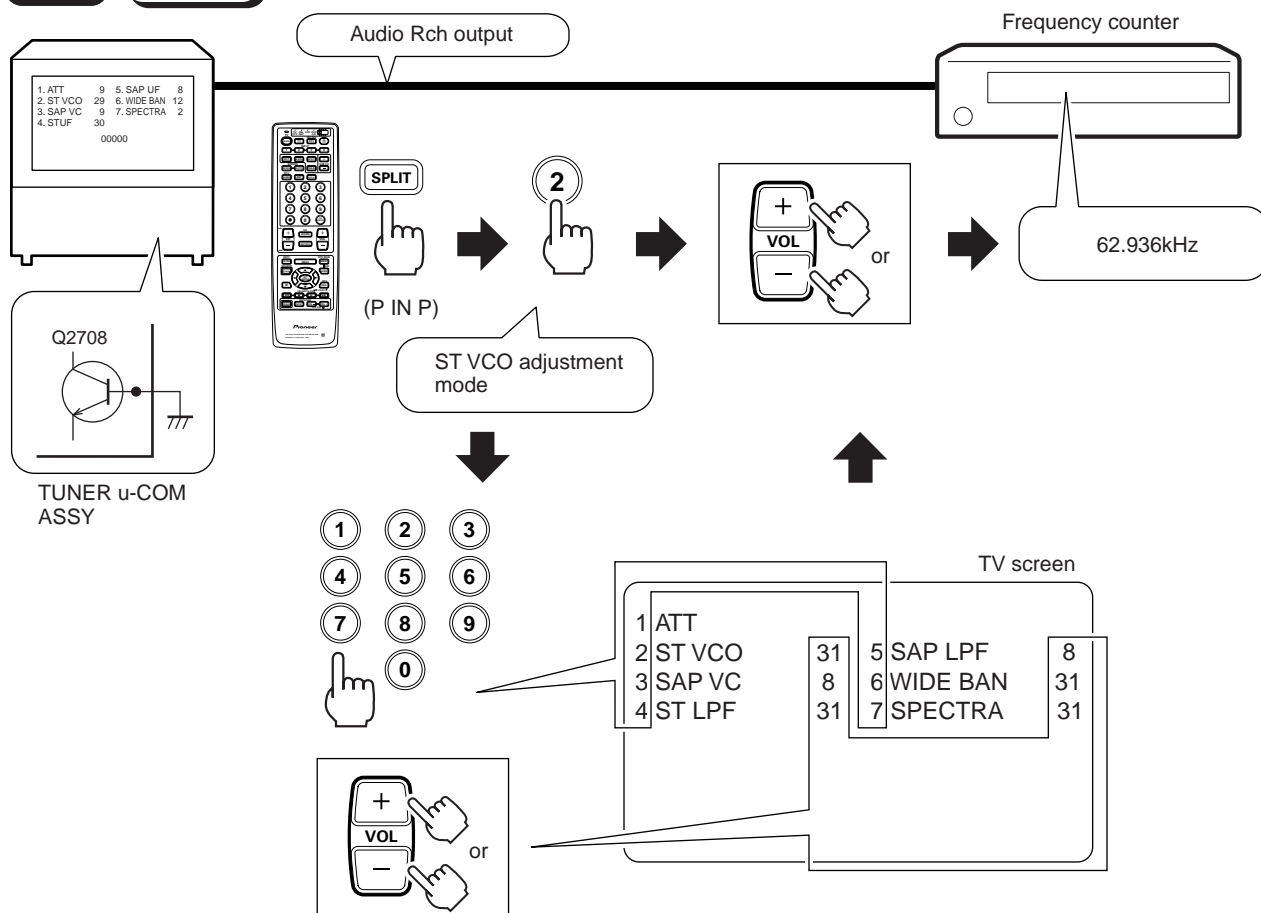
Start



12-3 Stereo VCO adjustment

Start

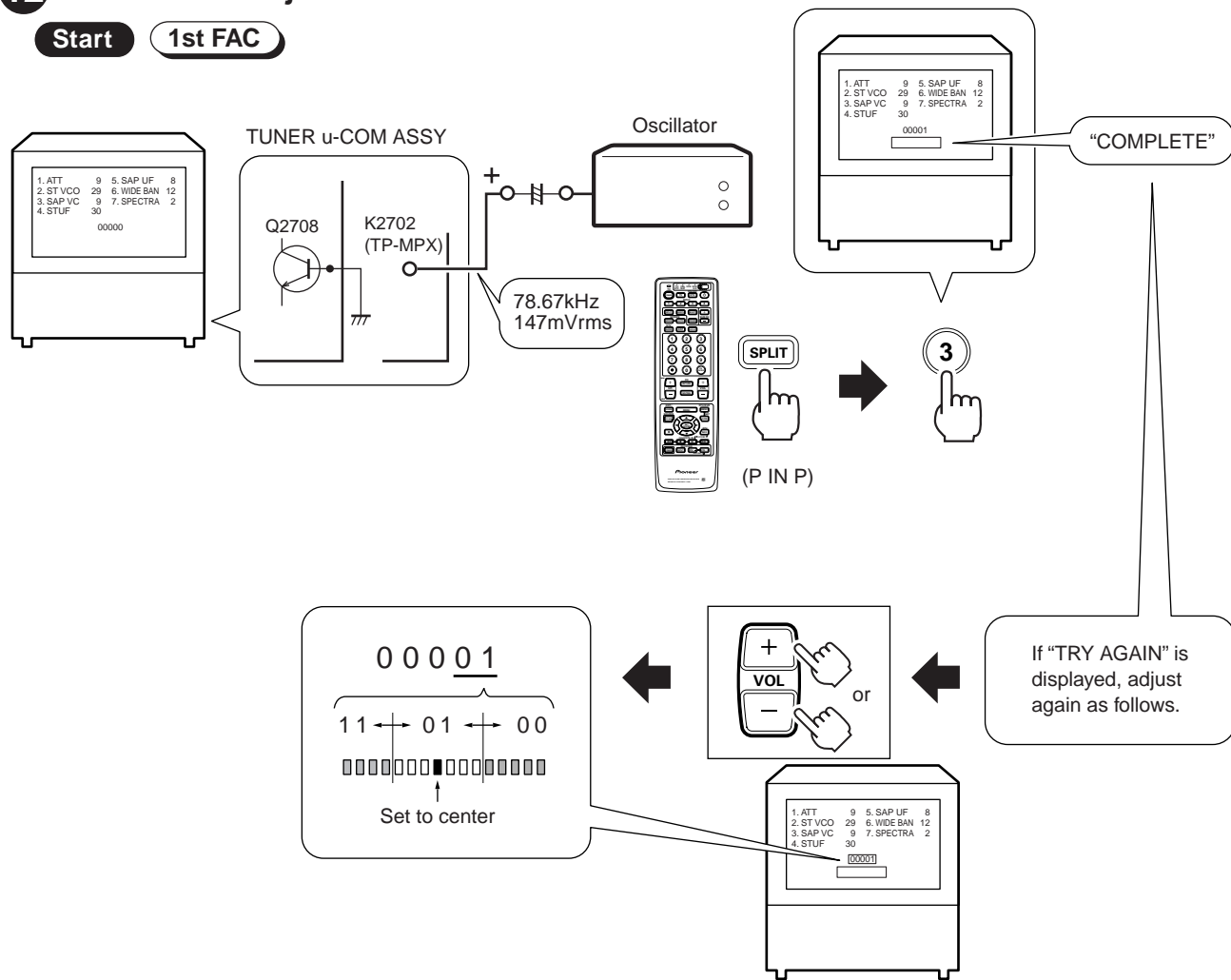
1st FAC



12-4 SAP VCO adjustment

Start

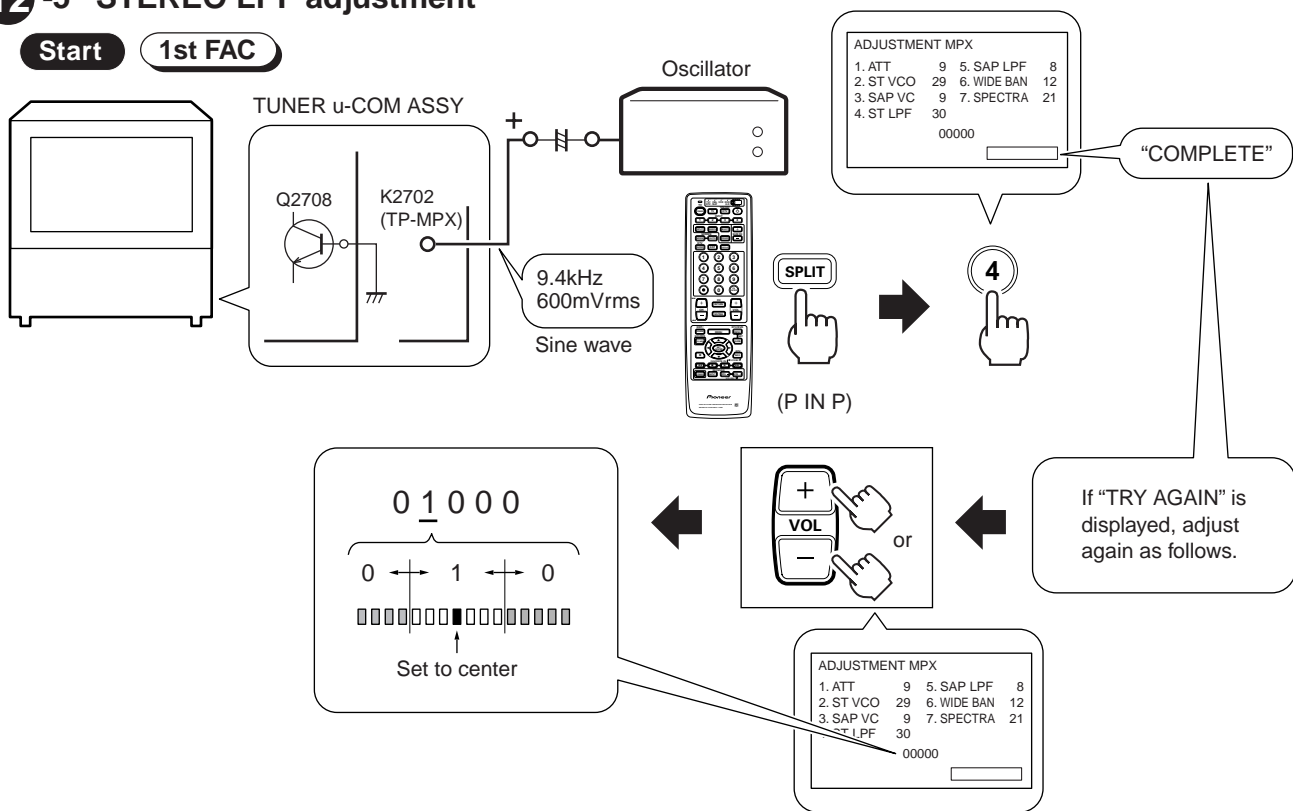
1st FAC



12-5 STEREO LPF adjustment

Start

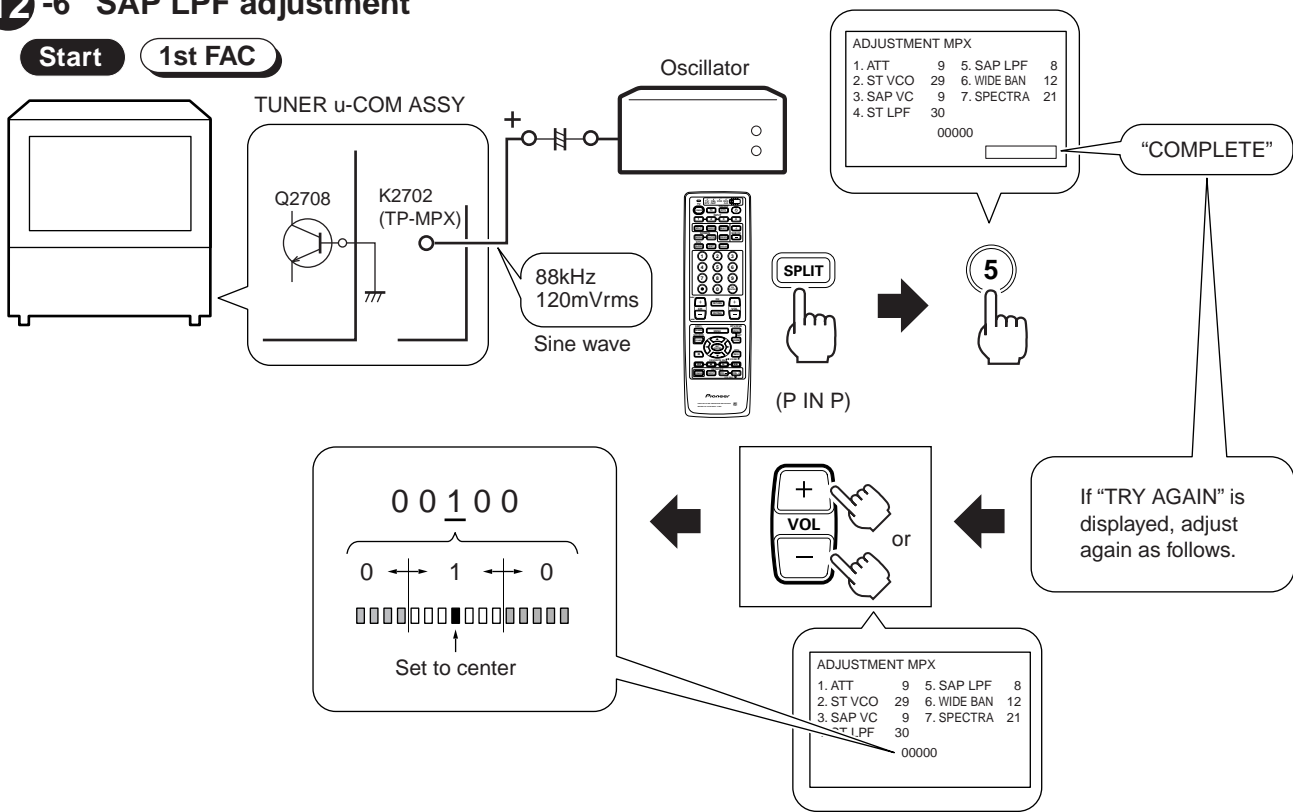
1st FAC



12-6 SAP LPF adjustment

Start

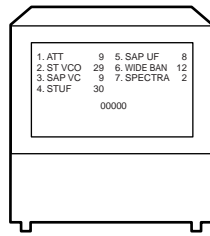
1st FAC



12-7 Separation adjustment (WIDE BAND)

Start

1st FAC



ANT A

Adjust the output of the TV OUT terminal on the rear panel to the minimum level.

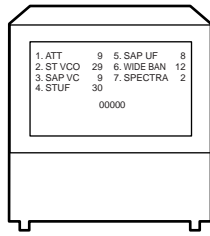
R ch level - L ch input (RF) → minimum
or
L ch level - R ch input (RF) → minimum

RF signal
Video signal : fV = EIA color-bar, 60dBμV
Audio signal : fA = 300Hz, 30% MOD, L ch
(or R ch) only, 54dBμV
9 ch (fp = 187.25MHz)

12-8 Separation adjustment (SPECTRAL)

Start

1st FAC



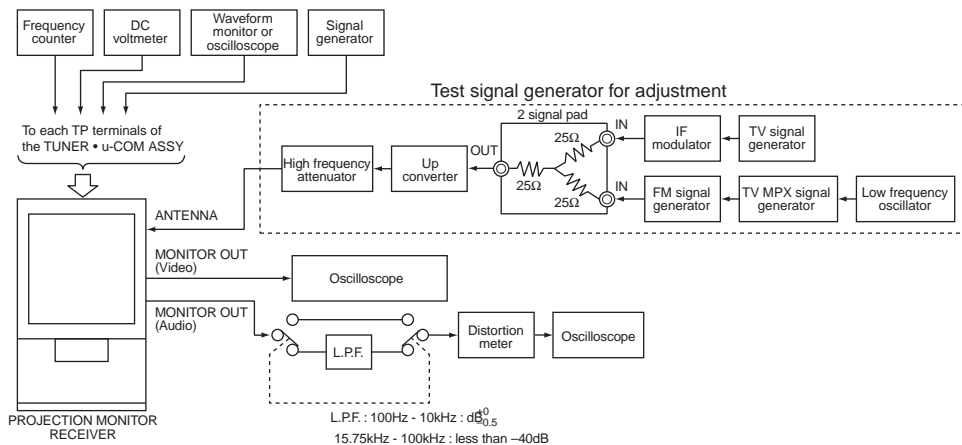
ANT A

Adjust the output of the TV OUT terminal on the rear panel to the minimum level.

R ch level - L ch input (RF) → minimum
or
L ch level - R ch input (RF) → minimum

RF signal
Video signal : fV = EIA color-bar, 60dBμV
Audio signal : fA = 3kHz, 30% MOD, L ch
(or R ch) only, 54dBμV
9 ch (fp = 187.25MHz)

● Connection diagram for adjusting the tuner section:



Note :

- Repeat step 12-7 and 12-8 till the best separation.
- When performing the separation adjustment, be sure to perform WIDE BAND adjustment first.
- If performing the WIDE BAND adjustment, be sure to perform SPECTRAL adjustment.

13 White balance adjustment

Start

1st FAC

STD OFFSET



COLOR TEMP (STD)



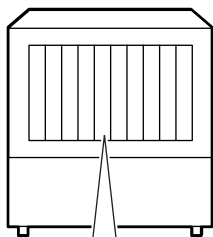
COMP (31.33kHz) OFFSET



COLOR TEMP (MOVIE)



COMP (15kHz) OFFSET



Color bar signal
without color
signal

Adjust the DRV-R and DRV-B
so that the bright part of the
screen becomes white.

Adjust the CUT-R and CUT-B
so that the dark part of the
screen become gray. (Don't
move the screen VR and CUT-G).



8

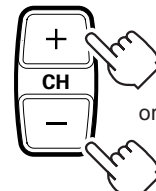
9

8 : DRV-R

9 : DRV-B



0



0 : CUT-R

- : CUT-B

14 PIONEER's standard settings

14-1 Sharpness adjustment

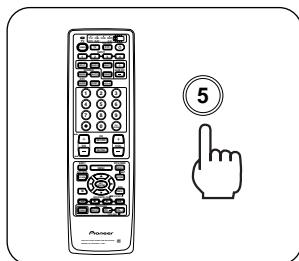
Start

1st FAC

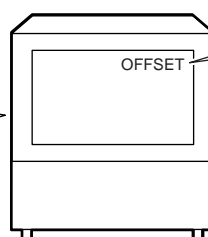
STD OFFSET



Telop : Blue



5

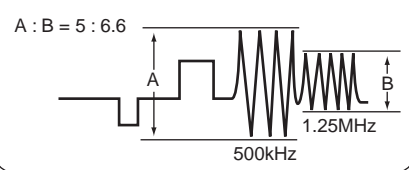


"Multiburst"

P5253

VIDEO ASSY

Oscilloscope



14-2 Color adjustment

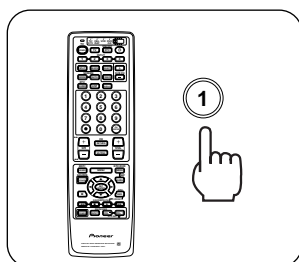
Start

1st FAC

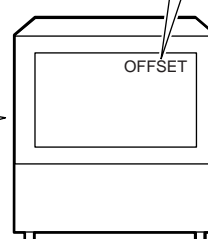
"Color bar"

OFFSET

Adjust the screen to optimum condition.



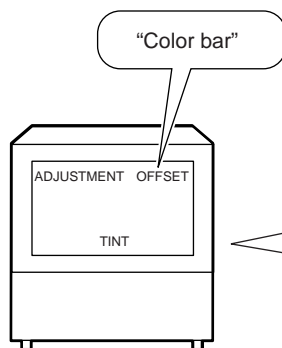
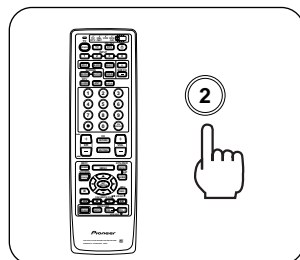
1



14 -3 Tint adjustment

Start

1st FAC

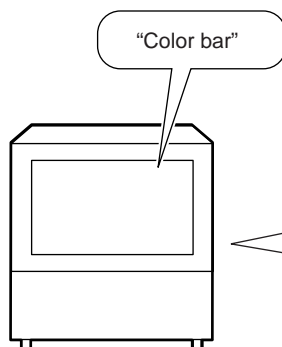
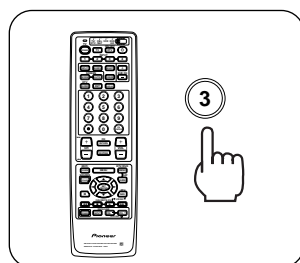


Adjust the screen to optimum condition.

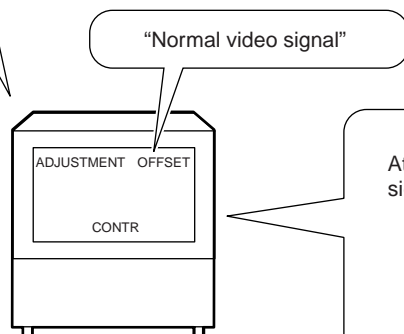
14 -4 Contrast adjustment

Start

1st FAC



Adjust the screen to optimum condition.



At the TP-BK of the B. CRT DRIVE assy, check that the signal is shaped as shown below.



Shapely waveform



Shapeless waveform

Saturated

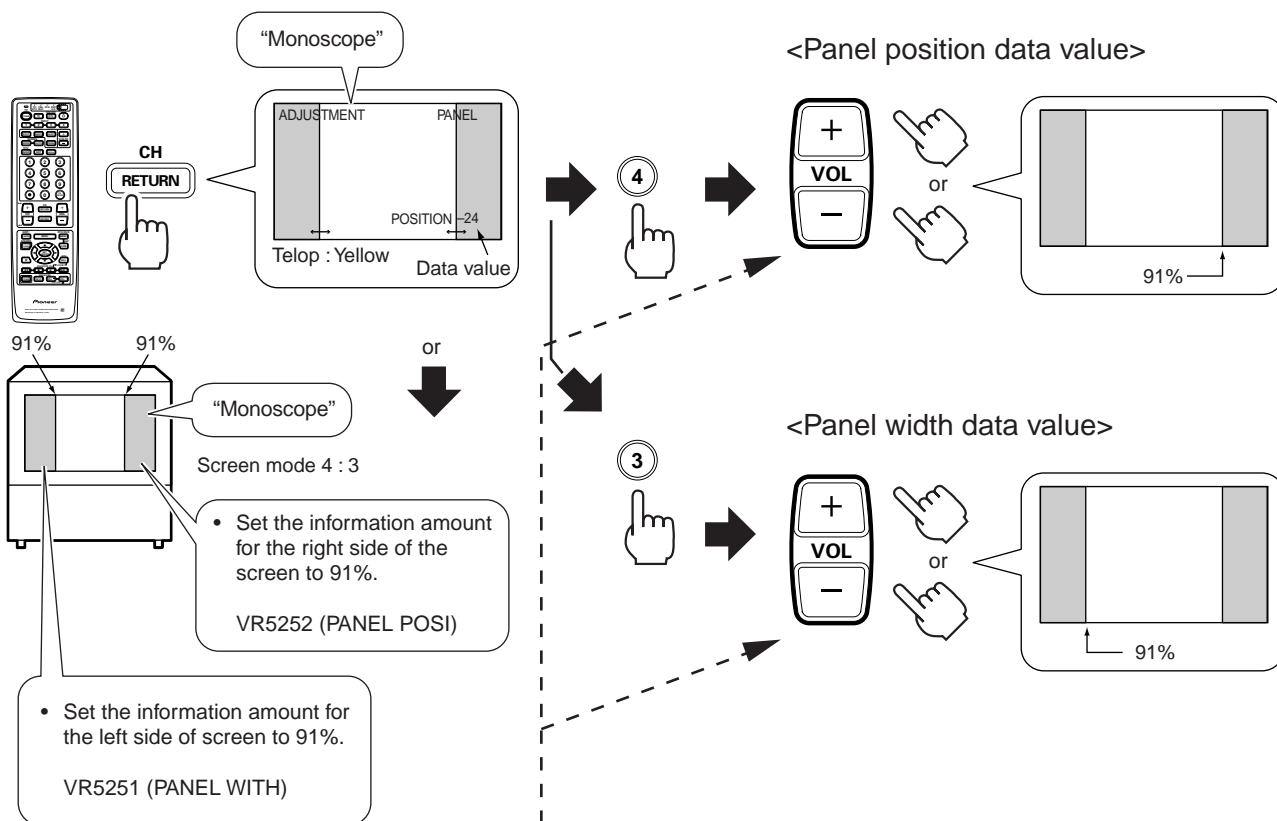
15 Side panel adjustment (Screen size 4 : 3)

15-1 Panel position adjustment

Start

1st FAC

(ADJUSTMENT PANEL MODE)

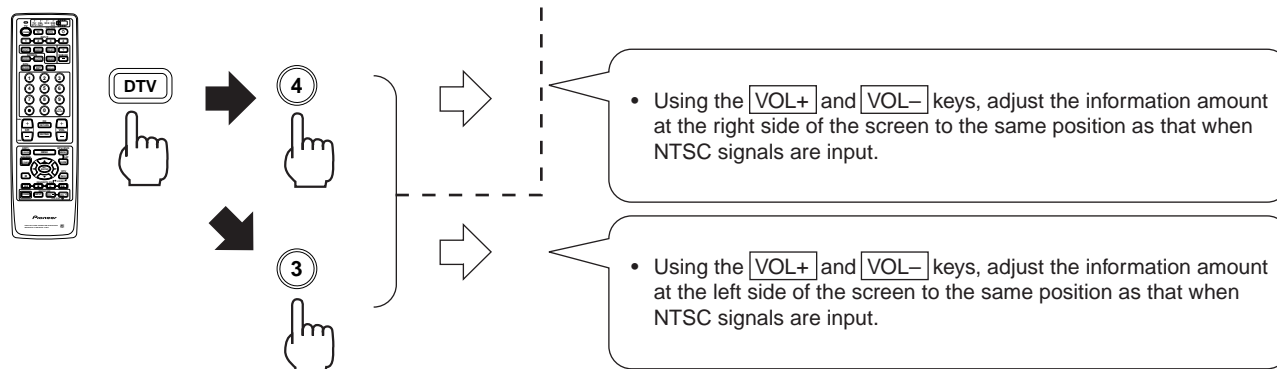


■ When the optional DTV tuner is mounted

Start

1st FAC

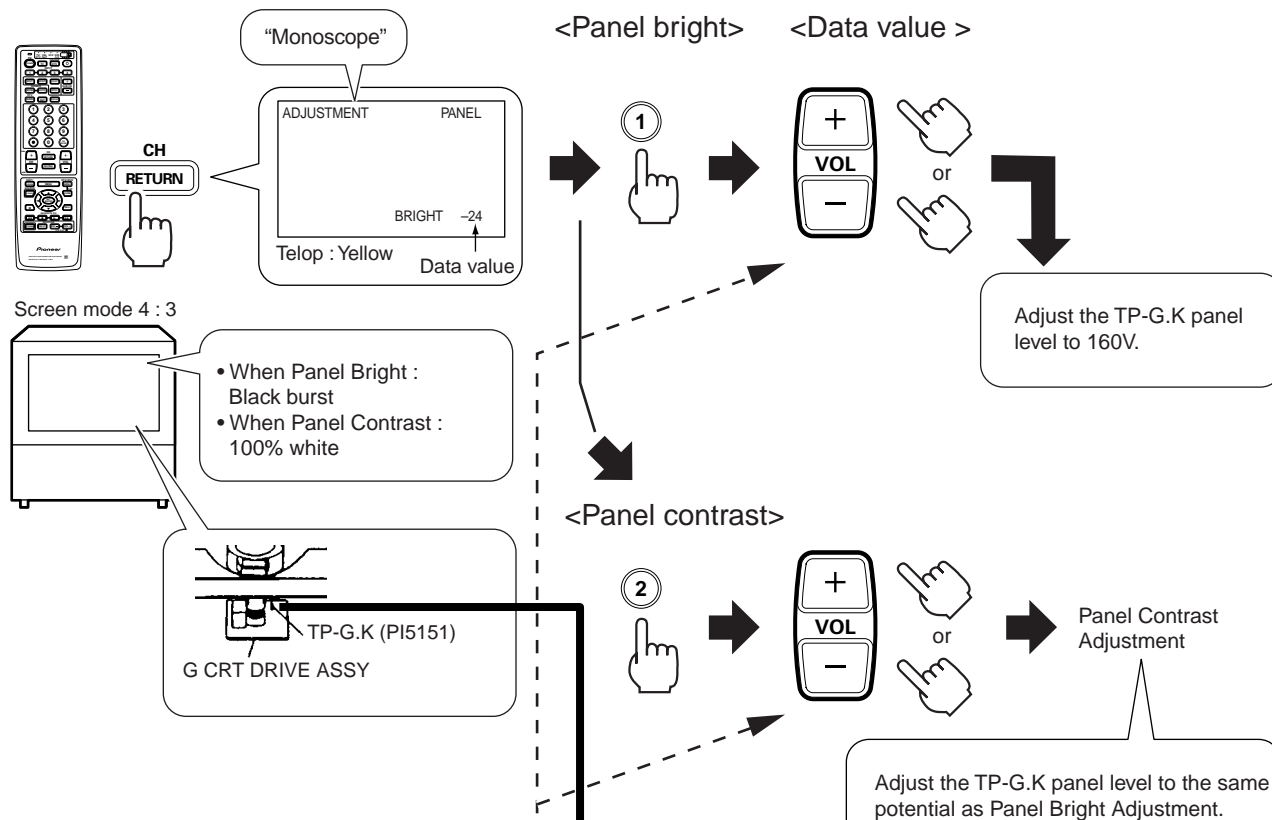
(DTV PANEL ADJ MODE)



15-2 Adjustment of panel luminance

Start 1st FAC

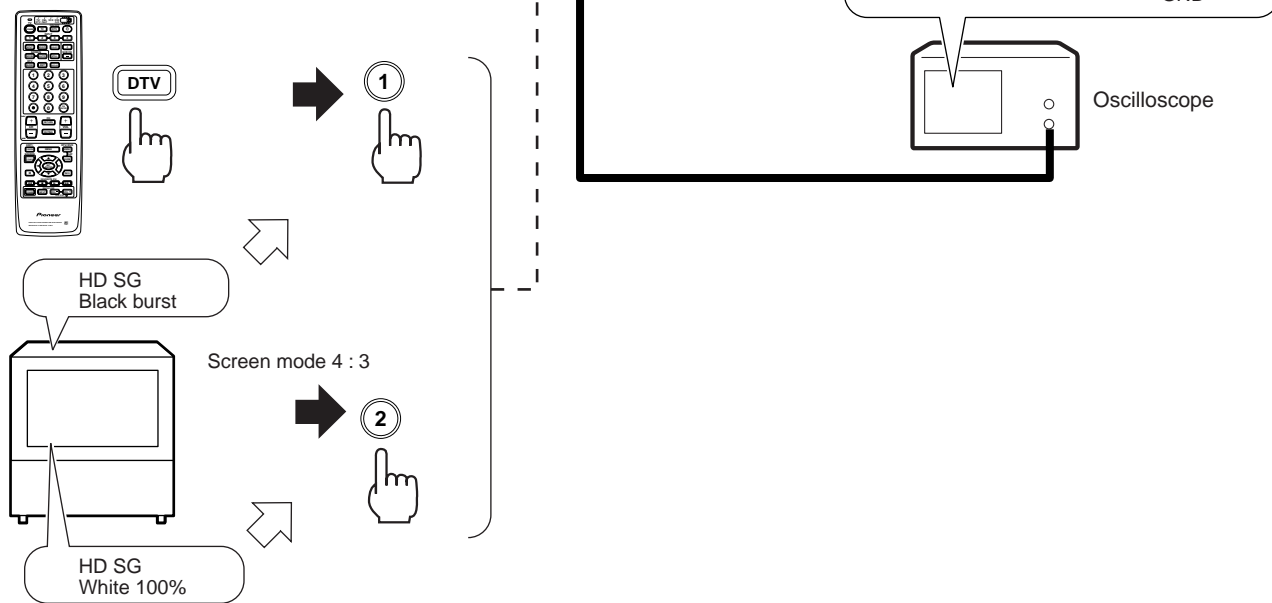
(ADJUSTMENT PANEL MODE)



■ When the optional DTV tuner is mounted

Start 1st FAC

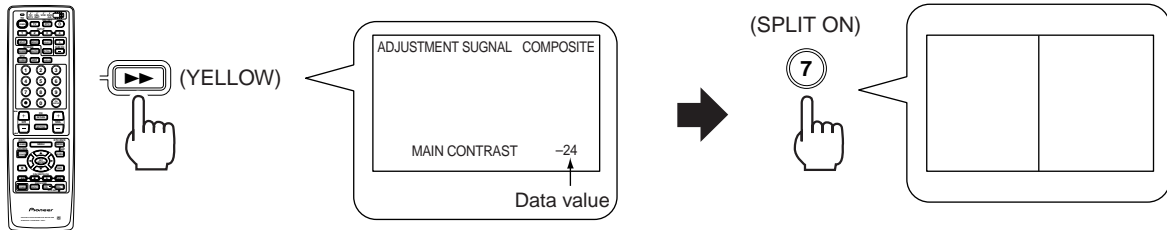
(DTV PANEL ADJ MODE)



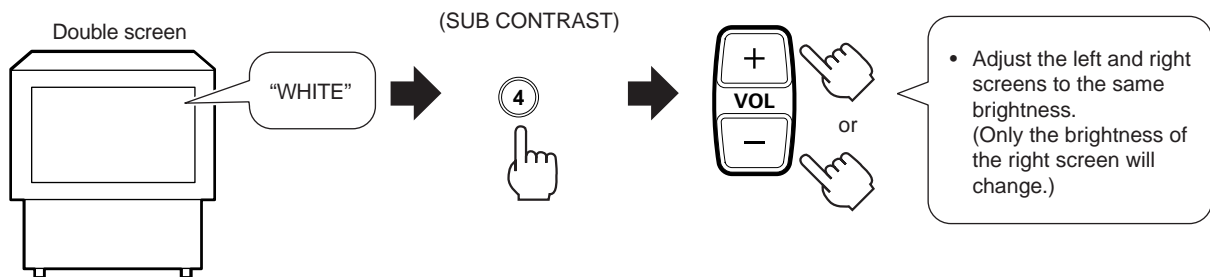
16 SPLIT screen adjustment

Start 1st FAC

(SIGNAL ADJUSTMENT MODE)



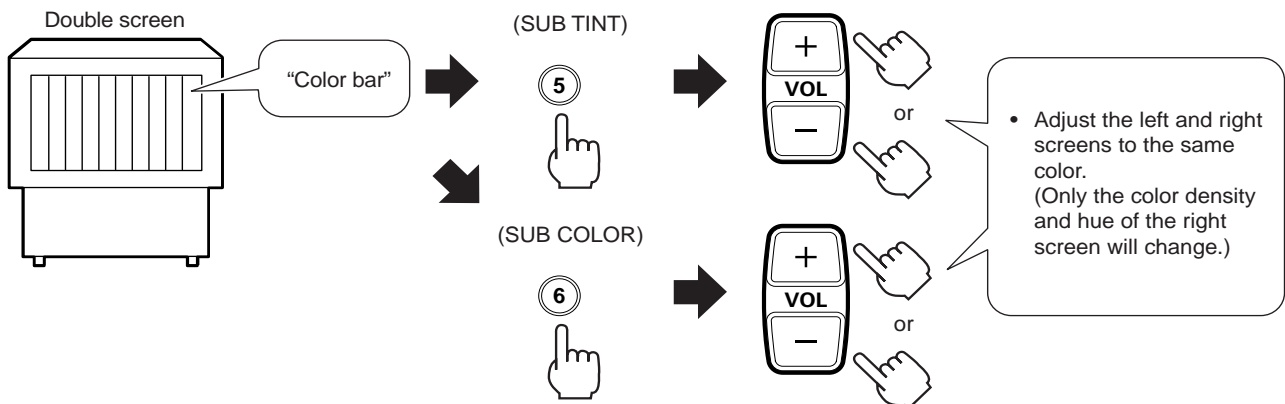
16-1 Luminance adjustment



Note :

If the SPLIT screen is extremely bright or dark when displaying live images after adjustments, adjust the MAIN CONTRAST (① key ON) to adjust the brightness again.

16-2 Adjustment of color density and hue



Note :

If the SPLIT screen is extremely light or the hue is improper when displaying live images after adjustments, adjust the MAIN TINT (② key ON) and MAIN COLOR (③ key ON) to adjust the color density and hue again.

7. GENERAL INFORMATION

7.1 WIRING DIAGRAM

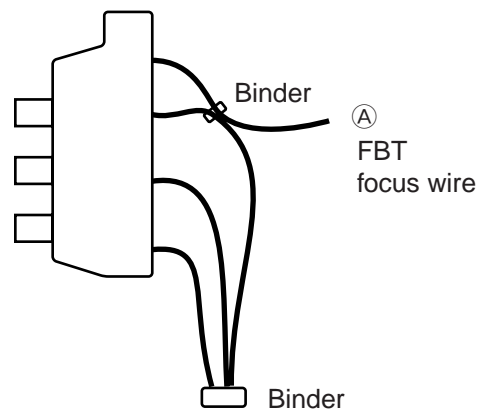
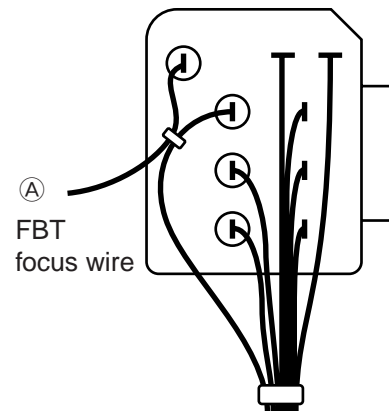
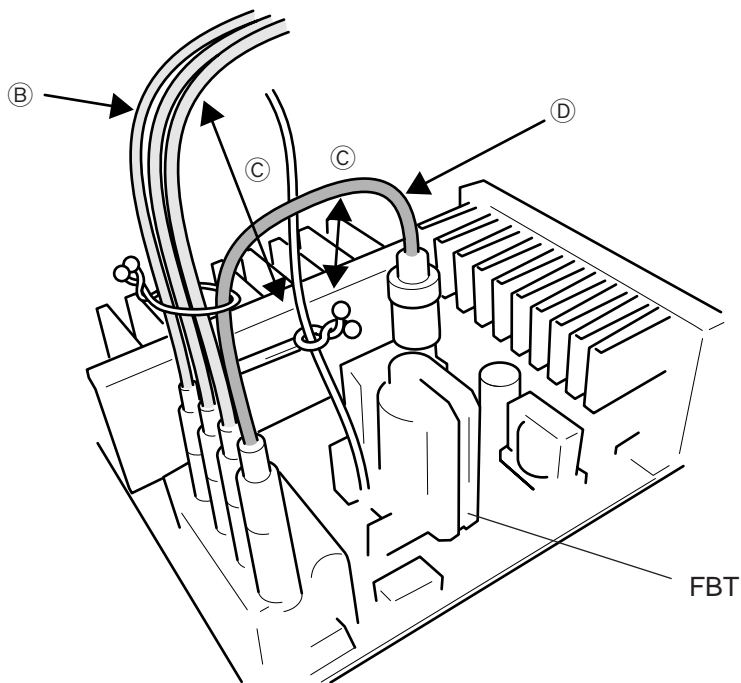
Reconnect any disconnected lead wires of the Projection monitor receiver.

The important points for connection of the lead wires are as shown below.

You may find that they were connected differently. Be sure reconnect the lead wires as they were.

Note:

- Ⓐ: FBT focus wire and other parts should be at least 15mm away from any other parts.
- Ⓑ: Loop with a radius of 30mm or omre.
- Ⓒ: The anode cable and other parts should be at least 15mm away from any other parts.
- Ⓓ: Loop with a radius of 50mm or more.



7.2 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

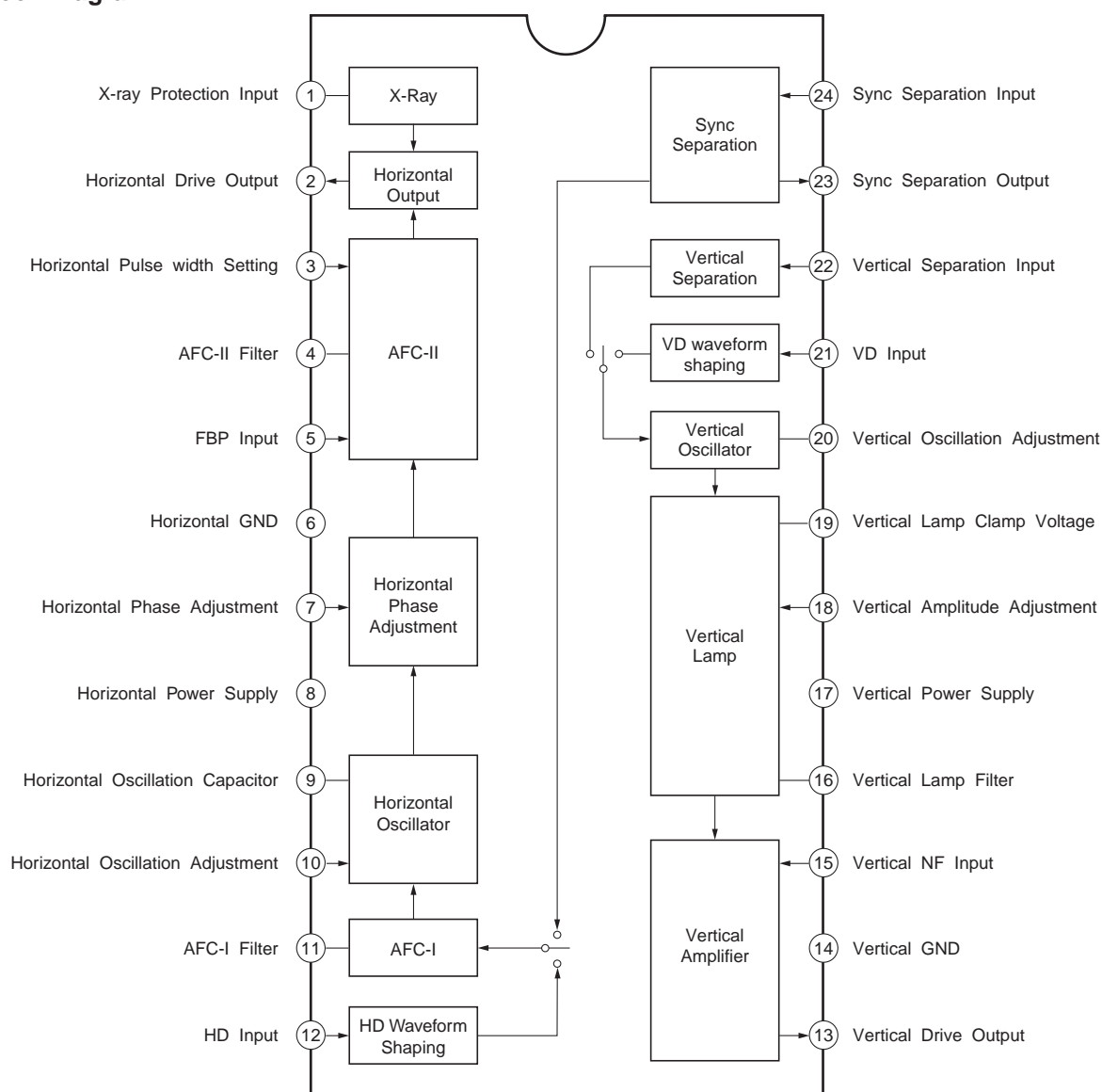
● List of IC

TA8638N	CA0007AD	CXA1315P	STK4412	NJM2187L
PD5462A9	PD5463B9	PD5497B9	PD0264AM	TA1276AN
AN5344FBP	AN5395FBP	SAA7165WP	TDA8755T	SAA4952WP
TMS4C2973-26	CD74HCT4046AM	SAA4990H	PE6001A9	PQ05RD1B
uPD64081BGF-3BA	TA1270AF	NJM2233BM	PQ09RD1B	CXA2119M
MM1031XM	TC90A45F	MB40C568HPFV	MA07132	HY514264BJC-50A
TLC29321PW	PD5499A	24LC08B(I)SN		

■ TA8638N (DEFLECTION ASSY : IC301)

DEFLECTION IC

● Block Diagram

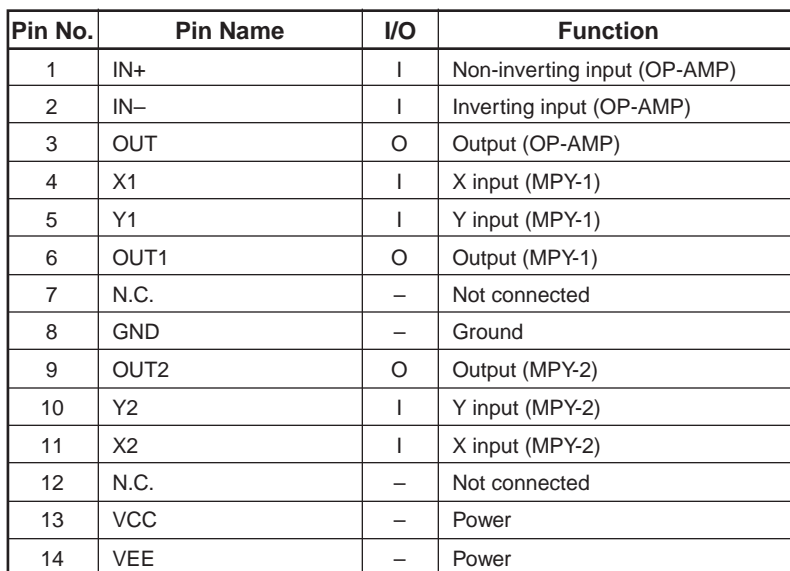


● Pin Function

Pin No.	Pin Name	I/O	Function
1	X-ray protection input	I	Pin for preventing radiation of X-ray from CRT. When this pin is set above 1.3V (standard), the horizontal output will stop until H.VCC becomes a low level.
2	Horizontal drive output	O	Horizontal output pin.
3	Horizontal pulse width setting	I	Pin for adding a capacitor for setting horizontal output pulse duty. <div style="text-align: center;"> <p>Pin 3-waveform</p> <p>Horizontal output</p> </div>
4	AFC-II filter	—	Pin for adding capacitor for AFC-II filter.
5	FBP input	I	FBP input pin.
6	Horizontal GND	—	Horizontal circuit GND
7	Horizontal phase adjustment	I	Horizontal phase adjustment pin. The image horizontal position can be adjusted according to the voltage of this pin.
8	Horizontal VCC	—	Horizontal circuit VCC=12V (Standard)
9	Horizontal oscillation capacitor	—	Pin for adding the horizontal oscillation capacitor. Oscillation circuit based on rated current discharge. <div style="text-align: center;"> <p>Pin 9 waveform</p> </div>
10	Horizontal oscillation adjustment	I	Pin for adjusting the horizontal oscillation frequency. Determines the current to Pin 9.
11	AFC-I filter	—	Pin for adding the capacitor to the AFC-I filter.
12	HD input	I	HD signal input pin. The HD signal is selected as the sync signal by setting the voltage of Pin 22 to low level (<0.7V).
13	Vertical drive output	O	Vertical output pin.
14	Vertical GND	—	Vertical circuit GND.
15	Vertical NF input	I	Vertical negative feed back input pin.
16	Vertical lamp filter	—	Pin for adding a capacitor for generating the vertical lamp waveform. Performs waveform-shaping by the discharged power of the capacitor.
17	Vertical power supply	—	Vertical circuit VCC=12V (Standard)
18	Vertical amplitude width adjustment	I	Pin for adding a capacitor for generating the vertical lamp waveform.
19	Vertical lamp clamp voltage	—	Pin for determining the upper limit voltage of vertical sawtooth wave.
20	Vertical oscillation adjustment	—	Pin for adding the capacitor resistance for vertical oscillation.
21	VD input	I	VD signal input pin. The VD signal is selected as a sync signal by setting the voltage of Pin 22 to low level (<0.7V).
22	Vertical separation input	I	Vertical sync signal input pin. By setting this pin to low level (<0.7V), the HD and VD signals are selected as a sync signal.

■ CA0007AD (AMP ASSY: IC907)
DUAL ANALOG MULTIPLIER IC

● Pin Function



● Pin Assignment



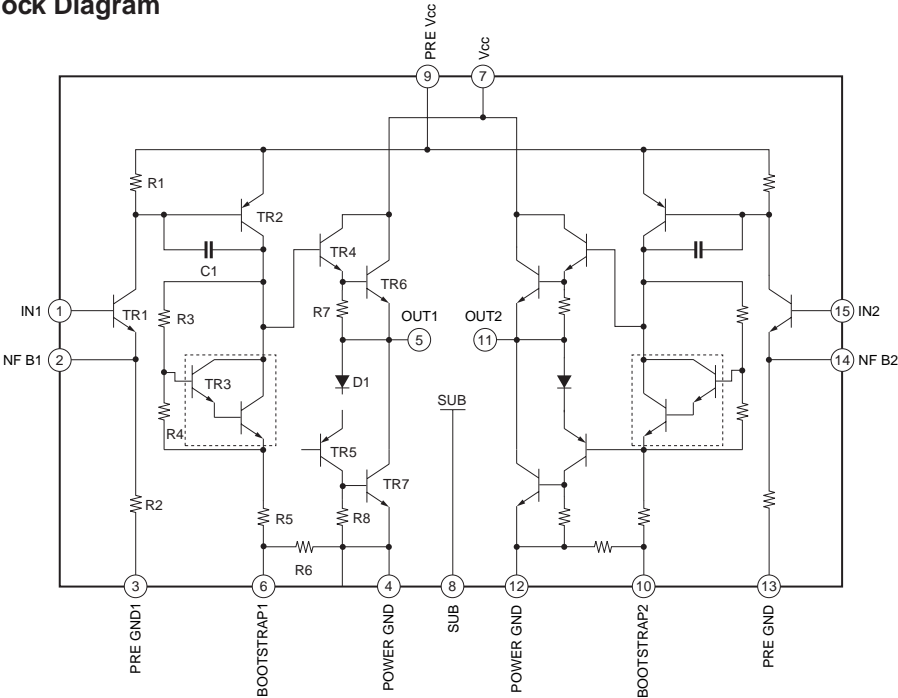
● Pin Function

Pin No.	Pin Name	I/O	Function
1	SW1	I/O	Input/output pin of the general I/O port. VILmax: 1.5V VIHmin: 3V VOLmax: 0.4V
2	SW0	I/O	
3	DAC4	O	
4	DAC3	O	D/A converter output pin.
5	DAC2	O	
6	DAC1	O	
7	DAC0	O	
8	GND	—	GND pin.
9	SW2	I/O	Input/output pin of the general I/O port. VILmax: 1.5V VIHmin: 3V VOLmax: 0.4V
10	SW3	I/O	
11	SAD0	I	Input pin of the slave address. Inputs by positive logic. VILmax: 1.5V VIHmin: 3V
12	SAD1	I	
13	SAD2	I	
14	SDA	I/O	I ² C BUS SDA input/output pin.
15	SCL	I	I ² C bus SCL input pin.
16	VCC	—	Power supply pin.

■ STK4412 (AMP ASSY: IC1202)

POWER Amp

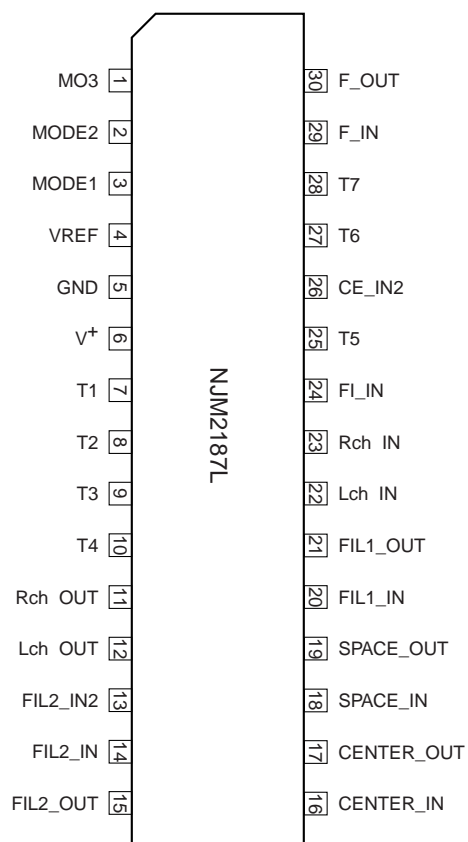
● Block Diagram



■ NJM2187L (AMP ASSY: IC1204)

SURROUND IC

● Pin Assignment



● Pin Function

Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	MO3	I	V+ IN	16	CENTER_IN	I	Center gain adjustment
2	MODE2	I	Mode selection switch	17	CENTER_OUT	O	Center gain adjustment
3	MODE1	I	Mode selection switch	18	SPACE_IN	I	Space gain adjustment
4	VREF	—	Reference voltage V+/2	19	SPACE_OUT	O	Space gain adjustment
5	GND	—	Ground	20	FIL1_IN	I	Perspective Network 1 input
6	V+	—	Power supply 4.5V to 13V	21	FIL1_OUT	O	Perspective Network 1 output
7	T1	O	Test pin	22	Lch IN	I	Left channel input
8	T2	O	Test pin	23	Rch IN	I	Right channel input
9	T3	O	Test pin	24	FI IN	I	Perspective Network input
10	T4	O	Test pin	25	T5	I	Test pin
11	Rch OUT	O	Right channel output	26	CE IN	I	Center input
12	Lch OUT	O	Left channel output	27	T6	I	Test pin
13	FIL2_IN2	I	Perspective Network 2 input	28	T7	O	Test pin
14	FIL2_IN	I	Perspective Network 2 input	29	F_IN	I	Perspective Network 3 input
15	FIL2_OUT	I	Perspective Network 2 output	30	F_OUT	O	Perspective Network 3 output

■ PD5462B9 (TUNER u-COM: IC2201)

MAIN μ -COM

● Pin Function

Pin No.	Pin Name	I/O	Function	ACT
1	OPTION	I	For software destination switching	P:L, S:H
2	TEMPS	I	Unused	—
3	AFT1	I	AFT analog voltage input to tuner 1	—
4	AFT2	I	AFT analog voltage input to tuner 2	—
5	KEY	I	Analog DC voltage input for determination of KEY input	—
6	DPO	I	DPO analog voltage input	—
7	YOB1	I	Unused	—
8	SRDY	I	SRDY signal for communication with sharp microprocessor	—
9	MCLK	O	MCLK signal for communication with sharp microprocessor	—
10	MDATA	O	MDATA signal for communication with sharp microprocessor	—
11	SDATA	I	SDATA signal for communication with sharp microprocessor	—
12	MREQ	O	MREQ signal for communication with sharp microprocessor	—
13	ANT SW2	O	Output for switching ANT SW for tuner 2	ANT.A: H, ANT.B: L
14	H SYNC1	TIM input	Tuner 1 reception horizontal sync count input. Same contents as H.SYNC2.	Negative polarity
15	H SYNC2	TIM input	Horizontal sync count input for tuner 2 reception. Determines that there is a broadcast station if the state in which the number of H. SYNC is 12 to 18 continues for 8 times, and determines that there is no broadcast station for other states continue for 6 times.	Negative polarity
16	V BLK2	INT input	For data transmission timing	Positive polarity
17	NC	I	Unused	—
18	NC	I	Unused	—
19	MTS SW	O	Tuner 1, 2 audio input switching control signal	Tuner1: L, Tuner2: H
20	(D)SCL	O	I2C BUS for communication with DTV tuner	—
21	(D)SDA	I/O	I2C BUS for communication with DTV tuner	—
22	(D)BUSY	I	BUSY signal for communication with DTV tuner	—
23	(D)RESET	O	RESET signal for communication with DTV tuner	—
24	(D)INT	INT input	INT signal for communication with DTV tuner	—
25	REM	INT input	SR remote control signal input	—
26	CNVSS	—	Connected to VSS	—
27	RESET	I	RESET input	RESET: L
28	TIMER LED	O	LED control signal for reserved recording	Lit: H
29	DTV LED	O	LED control signal for DTV reception	Lit: H
30	XIN	I	Main clock generation circuit input pin	—
31	XOUT	O	Main clock generation circuit output pin	—
32	VSS	—	Prints 0V	—
33	LED ON/OFF	O	Main PW RED LED control signal	Lit: H
34	P.D.	I	Unused	—
35	RELAY1	O	TV GUIDE +, TUNER 2 power supply relay control	ON: L, OFF: H
36	RELAY2	O	General secondary side circuit power supply relay control	ON: L, OFF: H
37	AC CLK	I	AC.CLK detection input for detection of AC power supply OFF	—
38	FAN DRV	I	Unused	—
39	A.MUTE1	O	Audio mute output	Mute: H
40	A.MUTE2	I	Unused	—

Pin No.	Pin Name	I/O	Function	ACT
41	C.MUTE	O	Converter mute output. When AC is supplied:L, Discharge:H.	MUTE ON: L, OFF: H
42	C.ENB	O	ENB output for PM0011 AS (convergence DAC IC) control.	Communication permission: L
43	CLK	O	PM0011AS (convergence DAC IC, IC1403, IC1408-IC1412), HG62G010R29FB (auto zoom IC, IC4005) CLK output for control	—
44	DATA	I/O	Same as above, DATE output	—
45	E2P RST	O	RESET output for EEPROM	RESET: H
46	(E)SCL	O	SCL output for EEPROM	—
47	(E)SDA	I/O	SDA input/output for EEPROM	—
48	I2CSW	O	Control output for separating the (E)SCL, (E)SDA I2C BUS from the auto converter connector. Connected only in the auto converter mode.	SW ON: H
49	SCL1	O	I2C BUS for AXF1084 (Tuner 1 front end), CXA1734S (US sound multi- decoder IC, IC2701), PD5497B9 (CCD microprocessor, IC2203), I2C BUS for control	—
50	SDA1	I/O	Same as above	—
51	SCL2	O	uPC1853CT (surround processor, IC1201) TA1276N (video jungle IC, IC5251) CXA1315P (audio DAC, IC1171), CXP1315P (DAC for base) CXA1315M (6-layer DAC, IC6403), I2C BUS for control	—
52	SDA2	I/O	Same as above	—
53	(S)CLK	O	CLK output for sub-microprocessor (PD5463B9, IC2202) control	—
54	(S)DATA	I/O	DATA output for sub-microprocessor (PD5463B9) control	—
55	(S)ENB	O	ENB output for sub-microprocessor (PD5463B9) control	Communication permission: L
56	(S)BUSY	I	BUSY output for sub-microprocessor (PD5463B9)	BUSY: H
57	CC SEL	O	CCD switching control signal	Main (CC for left screen): L
58	SCL5	O	AXF1084 (tuner 2 front end), I2C BUS for control	—
59	SDA5	I/O	AXF1084 (tuner 2 front end), I2C BUS for control	—
60	NC	I	Unused	—
61	SMUTE	O	Sub-screen mute output	—
62	MMUTE	O	Main-screen mute output	—
63	V MUTE	O	Video mute output (Main-screen and sub-screen muted together)	Mute: H
64	PENB	I	Unused	—
65	NC	I	Unused	—
66	G.ENB	O	ENB output for HG62G010R29FB (auto zoom IC, IC4005) control	Permission: L
67	G.RST	O	RESET output for HG62G010R29FB (auto zoom IC) control	RESET: H
68	3D RST	O	Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002)	RESET: L
69	V CHIP MUTE	O	V chip muting of main-screen	Mute: H
70	TV MUTE	O	For muting TV OUT signal during station selection	Mute: H
71	MON MUTE	O	Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF)	Mute: H
72	V/F MUTE	O	Muting output for switching VARIABLE and FIX of audio output	Mute: H
73	VCC	—	Supplies power +5V	—
74	ADVREF	—	Supplies power +5V for AD	—
75	AVSS	—	Supplies 0V	—
76	ANT SW1	O	Output for switching ANT SW for TUNER1	ANT.A: H, ANT.B: L
77	N.C.	—	Unused	—
78	N.C.	—	Unused	—
79	N.C.	—	Unused	—
80	N.C.	—	Unused	—

■ PD5463B9 (TUNER u-COM: IC2202)

SUB μ -COM

● Pin Function

Pin No.	Pin Name	I/O	Function	ACT
1	DH BLK	I	CCD display sync signal double speed HBLK input	Positive polarity
2	V BLK2	I	CCD display sync signal VBLK input	Positive polarity
3	OPTION	I	Voltage input for switching software destination	P: L, S: H
4	VS	I	Vertical sync input for detecting fH of component signal	Positive polarity
5	HS	I	Horizontal sync input for detecting fH of component signal	Positive polarity
6	NC	–	Unused	–
7	P.RST	O	RESET output for RESET control of progressive BLOCK (PE6001A9, PST9146N), TC9078F (aspect conversion IC)	RESET: H
8	(S)BUSY	O	BUSY line for communication with main microprocessor	H: BUSY
9	(S)ENB	I	ENB line for communication with main microprocessor	Communication permission: L
10	(S)DATA	I/O	DATA line for communication with main microprocessor	–
11	V SIZE ADJ	O	PWM output for vertical size adjustment	Size large: +, Size small: –
12	H SIZE ADJ	O	PWM output for horizontal size adjustment	Size large: +, Size small: –
13	H PHA ADJ	O	PWM output for horizontal position adjustment	Move to right: –, Move to left: +
14	OSD ENB	O	ENB output for PD0264A(OSD IC) control	Communication permission: L
15	(S)CLK	I	CLK line input for communication with main microprocessor	–
16	OSD DATA	O	DATA output for controlling PD0264 A (OSD IC)	–
17	OSD CLK	O	CLK output for controlling PD0264 A (OSD IC)	–
18	AVCC	–	Analog power supply. Connected to +5V.	–
19	HLF	–	Connected to external part for CCD timing signal generation circuit	–
20	RVCO	–	Connected to external part for CCD timing signal generation circuit	–
21	VHOLD	–	Connected to external part for CCD reference voltage generation circuit	–
22	CC Y1	I	Input of video signal for main screen CCD and V CHIP detection	Positive polarity
23	CNVSS	–	Connected to VSS.	–
24	XIN	–	Input pin of main clock generation circuit	–
25	XOUT	–	Output pin of main clock generation circuit	–
26	VSS	–	Supplies to 0V	–
27	VCC	–	Supplies +5V power supply	–
28	OSC1	I	Clock input for display	–
29	OSC2	I/O	Clock output for display	–
30	RESET	I	RESET input	Reset: L
31	V O/X1	I	Input for main signal input detection	Signal present: L
32	V O/X2	I	Input for sub signal input detection	Signal present: L
33	CENT O/X	I	Input for center input detection	Signal present: H
34	FRESH TONE	O	Signal output for switching skin color compensation input range	ON: L
35	CNR SW	O	Control output for CNR ON/OFF	ON: L
36	SDA4	I/O	I2C BUS for CXA2069Q (AV selection SW), CXA1315M (DAC for AV I/O) control	–
37	SDA3	O	TC9078F (aspect conversion IC), 87C654 (line doubler control microprocessor), SAA7165 (D/A conversion), I2C BUS for control	–
38	SCL4	O	Same as SDA4	–
39	SCL3	O	Same as SDA3	–

Pin No.	Pin Name	I/O	Function	ACT
40	AUX SW	O	Switches between external double speed component input signal, DTV 1080 signal, and double speed component signal double speed signal processed inside the unit	External double speed: H Others: L
41	COMP3 MUTE	O	Sub-screen component signal (15K) mute output	Mute: H
42	COMP2 MUTE	O	Main-screen component signal (15K) mute output	Mute: H
43	COMP1 MUTE	O	Double speed component signal (31.5K/33.75K) mute output	Mute: H
44	H OSC SW	O	Horizontal free-running frequency switching signal	31 K: H, 33 K: L
45	LIN WHITE	I	Unused	Sync with CUT B
46	NC	–	Unused	Unused
47	NC	–	Unused	Unused
48	NC	–	Unused	Unused
49	CC1-BLK	O	BLK output for main-screen CCD	Positive polarity
50	CC1-B	O	B output for main-screen CCD	Positive polarity
51	CC1-G	O	G output for main-screen CCD	Positive polarity
52	CC1-R	O	R output for main-screen CCD	Positive polarity

■ PD5497B9 (TUNER u-COM: IC2203)

CCD μ -COM

● Pin Function

Pin No.	Pin Name	I/O	Function	ACT
1	DH BLK	I	Sync signal double speed HBLK input for CCD display	Positive polarity
2	V BLK2	I	Sync signal VBLK input for CCD display	Positive polarity
3	OPTION	I	Voltage input for switching software destination	P: L, S: H *1
4	NC	I	Unused	–
5	NC	I	Unused	–
6	NC	I	Unused	–
7	NC	I	Unused	–
8	NC	I	Unused	–
9	NC	I	Unused	–
10	NC	I	Unused	–
11	NC	I	Unused	–
12	NC	I	Unused	–
13	NC	I	Unused	–
14	NC	I	Unused	–
15	NC	I	Unused	–
16	NC	I	Unused	–
17	NC	I	Unused	–
18	AVCC	–	Connected to analog power supply, +5V	–
19	HLF	–	Connected to external part for CCD timing signal generation circuit	–
20	RVCO	–	Connected to external part for CCD timing signal generation circuit	–
21	VHOLD	–	Connected to external part for CCD reference voltage generation circuit	–
22	CC Y2	I	Video signal input for detection of sub-screen CCD, V CHIP	Positive polarity
23	CNVSS	–	Connected to VSS	–
24	XIN	–	Input pin of main lock generation circuit	–
25	XOUT	–	Output pin of main lock generation circuit	–

PRO-700HD

Pin No.	Pin Name	I/O	Function	ACT
26	VSS	–	Supplies 0V	–
27	VCC	–	Supplies +5V power supply	–
28	OSC1	I	Clock input for display	–
29	OSC2	I/O	Clock output for display	–
30	RESET	I	RESET input	RESET:L
31	NC	I	Unused	–
32	NC	I	Unused	–
33	NC	I	Unused	–
34	NC	I	Unused	–
35	NC	I	Unused	–
36	NC	I	Unused	–
37	SDA1	I/O	I2C BUS for communication with main microprocessor	–
38	NC	I	Unused	–
39	SCL1	O	Same as SDA1	–
40	NC	I	Unused	–
41	NC	I	Unused	–
42	NC	I	Unused	–
43	NC	I	Unused	–
44	NC	I	Unused	–
45	NC	I	Unused	–
46	NC	I	Unused	–
47	NC	I	Unused	–
48	NC	I	Unused	–
49	CC2-BLK	O	BLK output for sub-screen CCD	Positive polarity
50	CC2-B	O	B output for sub-screen CCD	Positive polarity
51	CC2-G	O	G output for sub-screen CCD	Positive polarity
52	CC2-R	O	R output for sub-screen CCD	Positive polarity

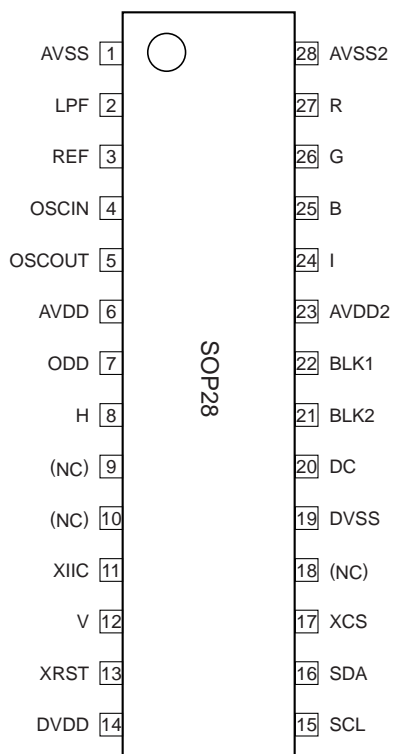
*1 P: AWW1715

S: AWW1723

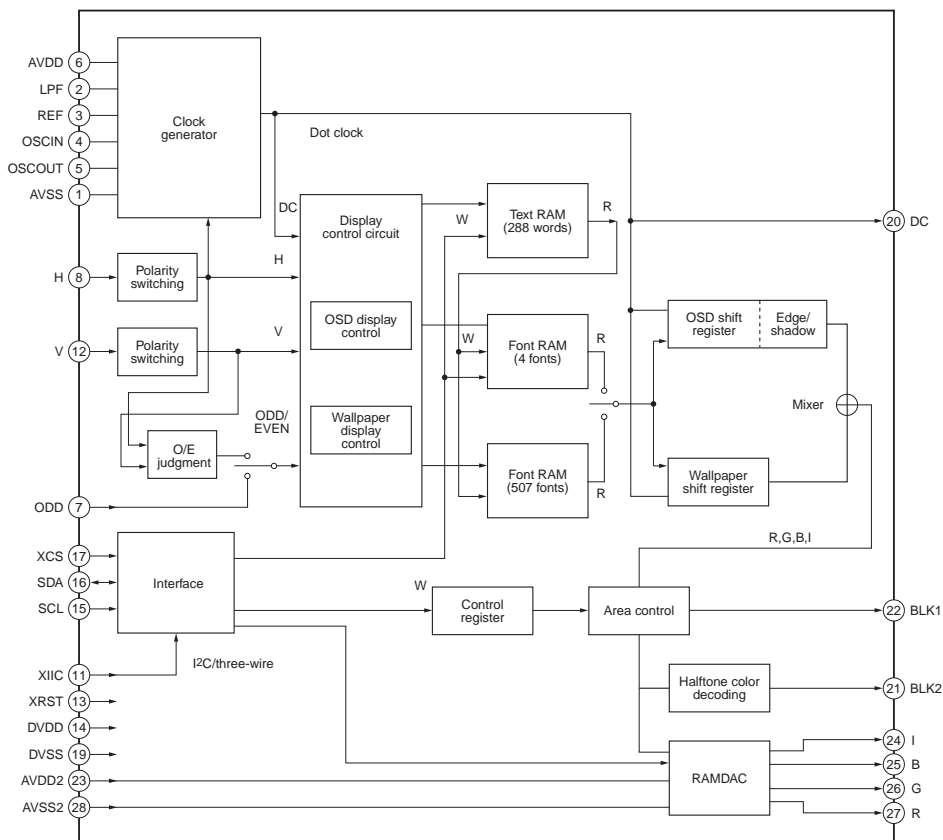
■ PD0264AM (TUNER u-COM ASSY: IC2206)

OSD (On-Screen Display) IC

● Pin Assignment



● Block Diagram



● Pin Function

Pin No.	Pin Name	I/O	Function
1	AVSS	—	Ground pin of the analog circuit section.
2	LPF	I	An external low-pass filter is connected.
3	REF	I	The free-running frequency of VCO is determined.
4	OSCIN	I	Oscillation input pin. This pin must be secured to the ground level.
5	OSCOUT	O	Oscillation output pin. (NC)
6	AVDD	—	Pin through which power is supplied to the analog circuit section.
7	ODD	I	Pin through which the field judging signal is input. When the signal goes to "H", it becomes ODD.
8	H	I	The horizontal synchronization signal is input. (Input polarity can be set.)
9	(NC)	—	
10	(NC)	—	
11	XIIC	I	Mask option function. When the serial three-wire is used, this terminal is usually fixed to "H".
12	V	I	The vertical synchronization signal is input. (Input polarity can be set.)
13	XRST	I	When set at "L", the inside of IC is initialized.
14	DVDD	I	Pin through which power is supplied to the digital circuit section.
15	SCL	I	Serial clock input terminal. When set at I ² C, this terminal functions as SCL. When the serial three-wire is used, this terminal functions as the serial clock input terminal.
16	SDA	I/O	Serial data input and output terminal. When set at I ² C, this terminal functions as SDA. When the serial three-wire is used, this terminal functions as the serial data input terminal.
17	XCS	I	Chip select input terminal. When set at I ² C, this terminal is not used; it is fixed to either "L" or "H". When the serial three-wire is used and this terminal is level "L", the serial data and serial clock are enabled. When the serial three-wire is used and this terminal is level "H", the serial data and serial clock are disabled.
18	(NC)	—	
19	DVSS	—	Ground pin of the digital circuit section.
20	DC	O	This terminal can be set to output the dot clock.
21	BLK2	O	This terminal outputs the timing of blanking 2 in the form of positive logic.
22	BLK1	O	This terminal outputs the timing of blanking 1 in the form of positive logic.
23	AVDD2	I	This terminal is the pin through which power is supplied to the DAC output port system.
24	I	O	This terminal outputs the intensity signal.
25	B	O	This terminal outputs the blue signal.
26	G	O	This terminal outputs the green signal.
27	R	O	This terminal outputs the red signal.
28	AVSS2	I	This terminal is the ground pin of the DAC output port system.

The diagram illustrates the internal architecture of the TDA9984 video decoder IC, showing the flow of signals from input pins through various processing blocks to output pins.

Pin Connections (Left):

- 1: fsc Output
- 2: SCP Output
- 3: SECAM Control
- 4: Y1 Output
- 5: U/Q Output
- 6: V/I Output
- 7: 1H DL Control
- 8: 4.43MHz X'tal
- 9: M PAL X'tal
- 10: 3.58MHz X'tal
- 11: APC Filter
- 12: Vcc1 (5V)
- 13: Chroma Input
- 14: Chroma GND
- 15: Y1/Sync Input
- 16: V-Sep.
- 17: HD Output
- 18: Sync Output
- 19: DEF GND
- 20: AFC Filter
- 21: 32f_H VCO
- 22: DEF Vcc (9V)
- 23: Horizontal Output [SW]
- 24: Bending Correction (External CP/BPP Input)
- 25: FBP Input (H/V BLK Input)
- 26: Digital GND
- 27: SDA
- 28: SCL

Internal Blocks (Center):

- Input/Control:** Includes blocks for fsc Output, SCP Output, SECAM Control, Color Differentiation, Delay Line, TOF, 1H DL Control, Chroma VCO, Automatic Filter adjustment, LPF fsc Trap, CW Matrix, Chroma Demoduration, APC Detection, P/N Differentiation Detection, Chroma BLK, Sub Color, ACC Detection, ACC Amplifier, TOF, SW, Delay Line, fsc Trap, H. V. Sync Sep, V Sep, V Sync Sep, HD Output/BPP Input, Sync Output, Phase Detection <AFC-1>, 32f_H VCO, Horizontal Drive, Horizontal Phase Shift, Phase Detection <AFC-2>, H BLK, H Parabola, VP Output, Mode SW, Vertical Count Down, (External VBLK), and D/A Converter.
- Processing:** Includes blocks for G-Y Axis Matrix, Clamp, Halftone, Color Y, CDE, Color Peak Detection, Unicolor, Color, Tint, Delay Line, SW, IQ-UV Converter, Fresh Color, IQ-UV Clamp, Black Peak Detection, Black Expansion, Black Level Control, Y Compensation, DC Playback, Sharpness Delay Line, Sharpness Control, Y NR Amplifier, Sub Contrast, Unicolor, Clamp, WPS, RGB Matrix, Contrast, Clamp, and RGB Brightness.
- Output/Control:** Includes blocks for Cut-Off, IK, R S/H, High Bright Color, Color Limiter, Y2 Input, U/Q Input, V/I Input, Black Peak Hold, APL Detection, VSM Mute, VSM Amplifier, HPF, DL SW, ABCL Amplifier, YM SW, RGB Output, BLK, R.G.B. S/H, Cut-Off, Drive, OSD Amplifier, ACL, YS SW, and G S/H, B S/H.

Pin Connections (Right):

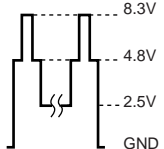
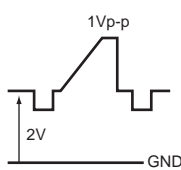
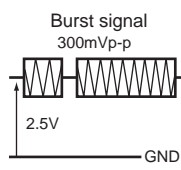
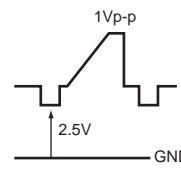
- 56: SENS Input
- 55: R S/H
- 54: Color Limiter
- 53: Y2 Input
- 52: U/Q Input
- 51: V/I Input
- 50: Black Peak Hold
- 49: APL Detection
- 48: VSM Output
- 47: YM Input
- 46: Vcc3(9V)
- 45: ABCL Input
- 44: TEXT GND
- 43: R Output
- 42: G Output
- 41: B Output
- 40: Vcc2 (9V)
- 39: Analog OSD R Input
- 38: Analog OSD G Input
- 37: Analog OSD B Input
- 36: Ys1 (Analog OSD)
- 35: Analog R Input
- 34: Analog G Input
- 33: Analog B Input
- 32: Ys2 (Analog RGB)
- 31: VP Output
- 30: G S/H
- 29: B S/H

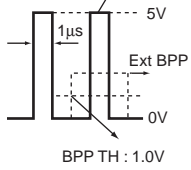
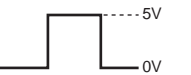
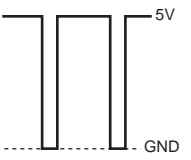
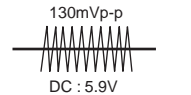
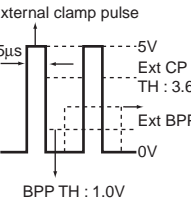
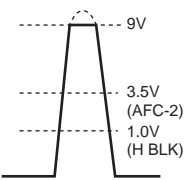
Notes:

- 100IRE = 2.3Vp-p
- Internal Clamp Mode or External Clamp Mode



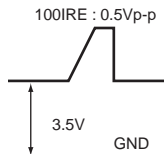
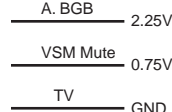
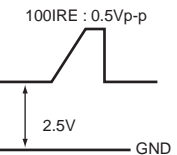
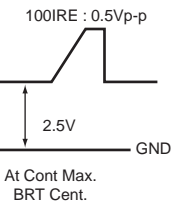
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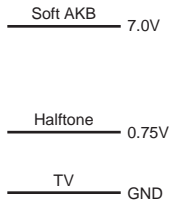
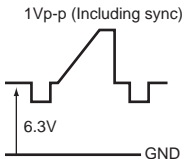

● Pin Function

Pin No.	Pin Name	I/O	Function	I/O Signal
1	fsc output	O	Outputs the VCXO oscillation waveform. Inputs the 3.58 NTSC signal, and the output DC becomes 3.2V only for color. It is 1.4V for Black/white and other signals.	DC 3.58 NTSC colored:3.2V Black/white/Other system:1.4V AC 0.6 Vp-p
2	SCP output	O	Outputs SCP (Sand Castle Pulse). The output signal is clamp pulse, horizontal blanking pulse, and vertical blanking.	
3	SECAM control	I/O	I/O pin for controlling the SECAM demodulation IC.	When PAL/NTSC:4.0V When SECAM:0.75V
4	Y1 output	O	Outputs the Y signal passed through the fsc TRAP (TRAP can be turned ON/OFF by the bus) and Y delay line circuit.	
5	U/Q output	O	Outputs the B-Y (U) signal or Q signal. Incorporates the LPF for eliminating carrier.	DC 2.5V Rainbow color bar: 360mVp-p
6	V/I output	O	Outputs the R-Y (V) signal and I signal. Incorporates the LPF for eliminating carrier.	DC 2.5V Rainbow color bar:360 mVp-p
7	1H DLcontrol	O	Outputs the PAL/SECAM/NTSC differential results. Maintains the voltage just before for black/white differentiation.	8.4V : PAL 4.3V : SECAM 0V : NTSC
8	4.43MHz X'tal	I	Connected to X'tal.	DC 4.0V 90 mVp-p
9	M PAL X'tal	I		
10	3.58MHz X'tal	I		
11	APC filter	O	Connected to the APC filter for chroma demodulation.	DC
12	VCC1 (5V)	—	VCC of chroma block I ² bus block.	—
13	Chroma input	I	Chroma input. Input the Y/C separated chroma signal.	
14	Chroma GND	—	Chroma processing block GND.	—
15	Y1/sync input	I	Composite video signal or Y signal input.	
16	V-Sep	O	Connected to the vertical sync separation filter.	DC 6.4V

Pin No.	Pin Name	I/O	Function	I/O Signal
17	HD output	O	<p>(1) When bus HD-OUT=0, outputs the HD pulse imposed with AFC (pulse width:1 us).</p> <p>Also provided with a BPP (black peak detection stop pulse) signal external input function.</p> <p>(2) When bus HD-OUT=1, and AKB is ON, outputs the AKB reference period pulse.</p>	<p>(1)</p>  <p>(2)</p> 
18	Sync output	O	Outputs the sync signal separated in the sync separation circuit.	
19	DEF GND	—	DEF block GND.	—
20	AFC filter	O	<p>Connected to the horizontal AFC filter.</p> <p>Determines the horizontal output frequency at the voltage of this pin.</p>	DC
21	32fH VCO	O	Connected to the ceramic oscillator for horizontal oscillation.	
22	DEF VCC (9V)	—	VCC of the DEF block.	—
23	Horizontal output (Mode SW)	O	Horizontal output pin.	<p>HIGH : 3.2V</p> <p>LOW : 0.2V</p>
24	Bending correction (External CP/BPP Input)	I	<p>(1) Normal scan mode</p> <p>Corrects bending of the screen during high voltage changes.</p> <p>(2) Double speed mode</p> <p>Inputs the clamp pulse externally when this mode.</p>	<p>(1) DC 4.5V</p> <p>(2)</p> 
25	FBP input	I	Inputs the FBP for generating the pulse for horizontal AFC2, Y smoothing, horizontal blanking.	
26	Digital GND	—	I ² L block GND pin.	—
27	SDA	I/O	I ² C bus SDA pin.	—
28	SCL	I	I ² C bus SCL pin.	—

PRO-700HD

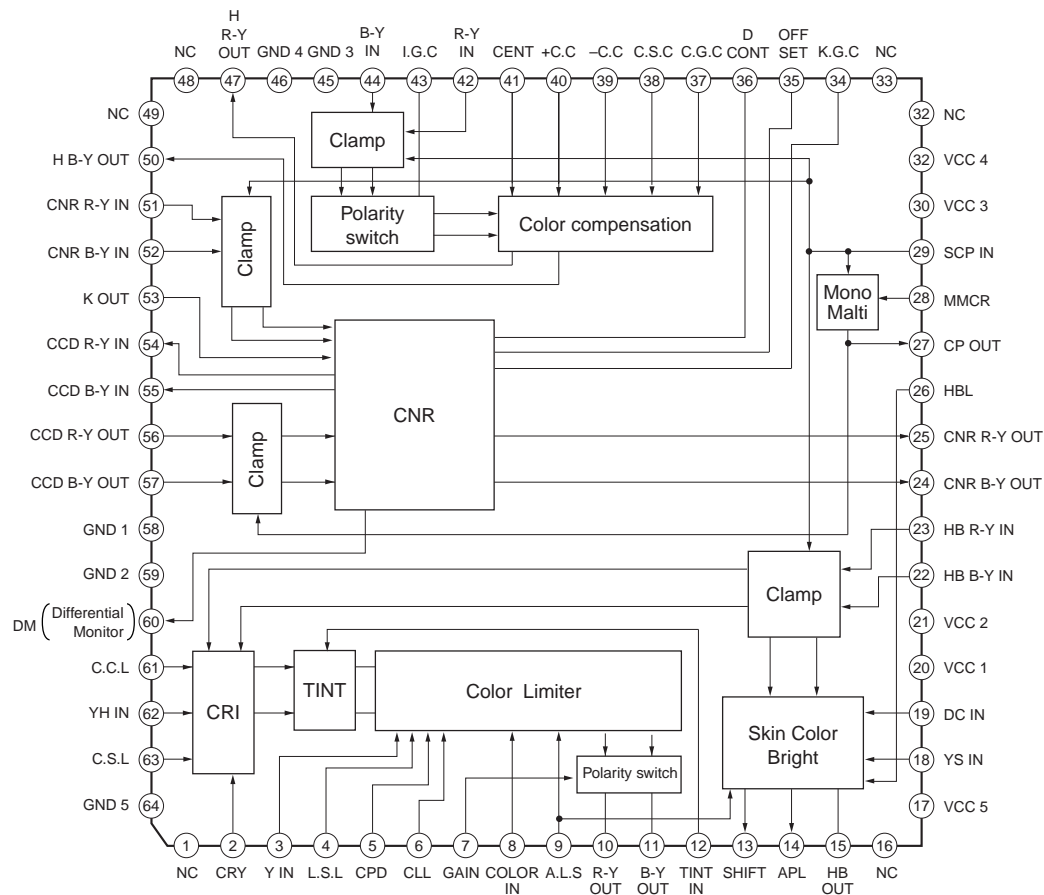
Pin No.	Pin Name	I/O	Function	I/O Signal
29	B S/H	O	S/H (sample hold) pin for AKB mode or clamp mode.	DC
30	G S/H	O	S/H (sample hold) pin for AKB mode or clamp mode.	DC
31	VP output	O	Vertical pulse output.	
32	YS2	I	Switch for switching the internal RGB signal and analog RGB (pins 33, 34, 35). The VM output is muted when YS2 SW is ON.	
33	Analog B input	I	Analog RGB input pins.	
34	Analog G input	I		
35	Analog R input	I		
36	YS1	I	Switch for switching between the internal RGB signal and OSD/ analog RGB (pins 37, 38, 39). The VSM output is muted when YS1 SW is ON.	
37	Analog OSD B input	I	OSD signal or analog RGB input pins.	
38	Analog OSD G input	I		
39	Analog OSD R input	I		
40	VCC2 (9V)	—	Text block VCC pin.	—
41	B output	O	RGB output.	
42	G output	O		
43	R output	O		
44	TEXT GND	—	TEXT block GND pin.	—
45	ABCL input	I	External unicolor, brightness, dynamic ABL control pin.	ABCL OFF: Higher than 6V
46	VCC3 (9V)	—	VCC pin of the picture quality and color difference block.	—

Pin No.	Pin Name	I/O	Function	I/O Signal
47	YM input	I	Internal RGB signal halftone SW.	
48	VSM output	O	Outputs the DC played back Y signal which had passed through HPF. The output is muted by the pins 32 and 36 switches.	DC 3.5V
49	APL detection	O	Connected to the filter for correcting the DC playback rates.	DC
50	Black peak hold	I	Connected to the filter for controlling the black expansion gain of the black expansion circuit.	DC
51	V/I input	I	Pin for inputting the R-Y (V)/I signal and B-Y (U)/Q signal.	When Burst:Chroma=1:1: 360 mVp-p DC: 5.0V
52	U/Q input	I		
53	Y2 input	I	Pin for inputting the Y signal.	
54	Color limiter	O	Connected to the filter for detecting the color limit.	DC
55	R S/H	O	Same as pins 29 and 30.	DC
56	SENSE input	I	Inputs the IK feedback signal from the CRT.	

■ AN5344FBP (SUB VIDEO ASSY: IC4201)

COLOR CONTROL IC

● Block Diagram



● Pin Function

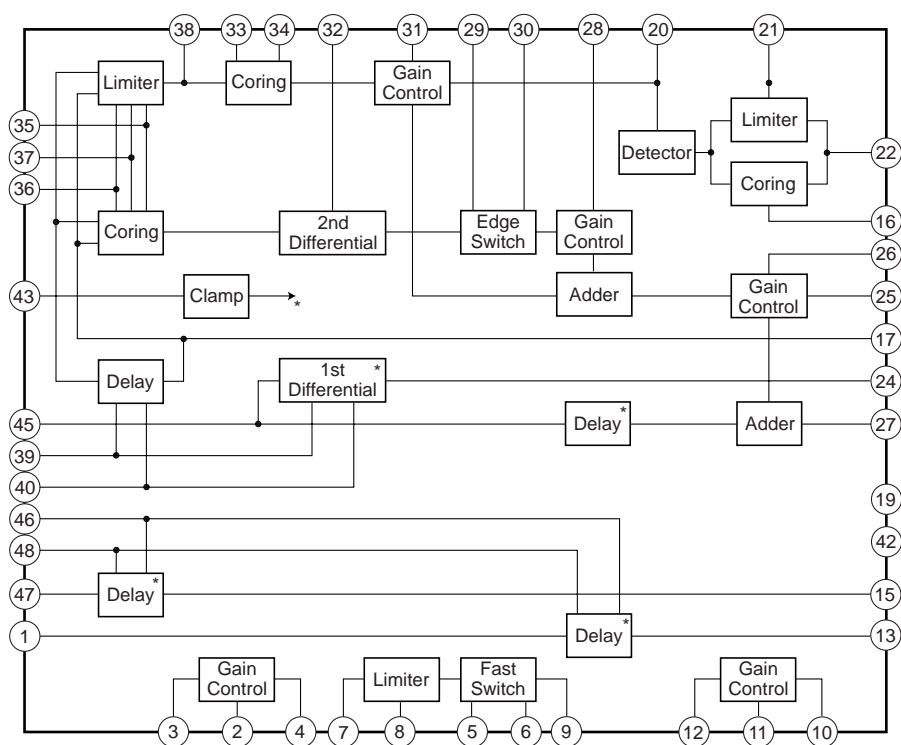
Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	NC	—	NC	19	DC IN	I	External DC input
2	CRI	I	CRI correction amount	20	VCC 1	—	VCC1 (Main)
3	Y IN	I	Y input	21	VCC 2	—	VCC2 (Clamp system)
4	L.S.L	I	Limit slice level	22	HB B-Y IN	I	Skin color bright B-Y input
5	CPD	I	Color peak detection	23	HB R-Y IN	I	Skin color bright R-Y input
6	CLL	I	Color limit level	24	CNR B-Y OUT	O	CNR B-Y output
7	GAIN	I	Output polarity gain control	25	CNR R-Y OUT	O	CNR R-Y output
8	COLOR IN	I	Color control voltage	26	HBL	—	(Skin color bright correction amount) NC
9	A.L.S	I	APL connection limiter switch	27	CP OUT	—	Clamp pulse output
10	R-Y OUT	O	R-Y output	28	MMCR	I	Monostable multivibrator CR
11	B-Y OUT	O	B-Y output	29	SCP IN	I	SCP input
12	TINT IN	I	Tint control voltage	30	VCC 3	—	VCC3 (B-Y system)
13	SHIFT	O	APL shift adjustment	31	VCC 4	—	VCC4 (R-Y system)
14	APL	O	APL detection	32	NC	—	NC
15	HB OHT	—	(Skin color bright output) NC	33	NC	—	NC
16	NC	—	NC	34	K.G.C	—	(K calculation gain control) NC
17	VCC 5	—	VCC5 (For CNR)	35	OFFSET	I	Offset control
18	YS IN	I	YS input	36	D CONT	—	(Differential control) NC

Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
37	C.G.C	I	Color compensation gain control	51	CNR R-Y IN	I	CNR R-Y input
38	C.S.C	I	Color compensation stop control	52	CNR B-Y IN	I	CNR B-Y input
39	- C.C	I	- side compensation control	53	K CONT	I	K control
40	+ C.C	I	+ side compensation control	54	CCD R-Y IN	—	(CCD R-Y input) NC
41	CENT	I	Center axis control	55	CCD B-Y IN	—	(CCD B-Y input) NC
42	R-Y IN	I	R-Y input	56	CCD R-Y OUT	O	CCD R-Y output
43	I.G.C	I	Input polarity gain control	57	CCD B-Y OUT	O	CCD B-Y output
44	B-Y IN	I	B-Y input	58	GND 1	—	GND1 (Main)
45	GND	—	GND 3 (B-Y system)	59	GND 2	—	GND2 (Clamp system)
46	GND	—	GND 4 (R-Y system)	60	DM	—	(Differential monitor) NC
47	H R-Y OUT	O	Skin color compensation R-Y output	61	C.C.L	I	CRI core ring level
48	NC	—	NC	62	YH IN	I	Y high band input
49	NC	—	NC	63	C.S.L	I	CRI slice level
50	H B-Y OUT	O	Skin color compensation B-Y output	64	GND	—	GND5 (For CNR)

■ AN5395FBP (SUB VIDEO ASSY: IC4401)

HDTV IC

● Block Diagram



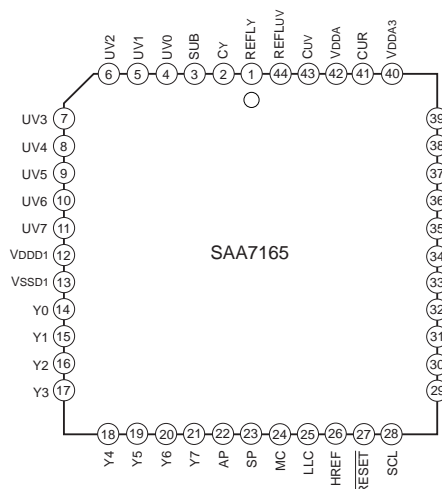
● Pin Function

Pin No.	Function	I/O	Pin No.	Function	I/O
1	PR input	I	25	Sharpness mute control	I
2	VM preamplifier gain control	I	26	Sharpness control	I
3	VM preamplifier input	I	27	Y output	O
4	VM preamplifier output	O	28	Contour gain control	I
5	Sub screen Ys input	I	29	Contour bias	I
6	Ys input	I	30	Secondary differential input	I
7	VM limiter amplifier input	I	31	Minute part gain control	I
8	VM limiter amplifier gain control	I	32	Post-correction primary differential output	O
9	VM limiter amplifier output	O	33	Minute part core ring control	I
10	Sub screen amplifier output	O	34	Minute part core ring bias	I
11	Sub screen amplifier gain control	I	35	Differential signal bias 1	I
12	Sub screen amplifier output	O	36	Contour, minute part separation level control	I
13	PR output	O	37	Differential signal bias 2	I
14	NC	—	38	Minute part limiter output	O
15	PB output	O	39	Y delay line switching switch 1	I
16	DSC large signal gain control	I	40	Y delay line switching switch 2	I
17	Pre-correction primary differential input	I	41	NC	—
18	NC	—	42	GND	—
19	VCC	—	43	Clamp pulse input	I
20	DSC detection output	O	44	NC	—
21	DSC small signal gain control	I	45	Y input	I
22	DSC input	I	46	C delay line switching switch 1	I
23	DSC bias	I	47	PB input	I
24	Pre-correction primary differential output	O	48	C delay line switching switch 2	I

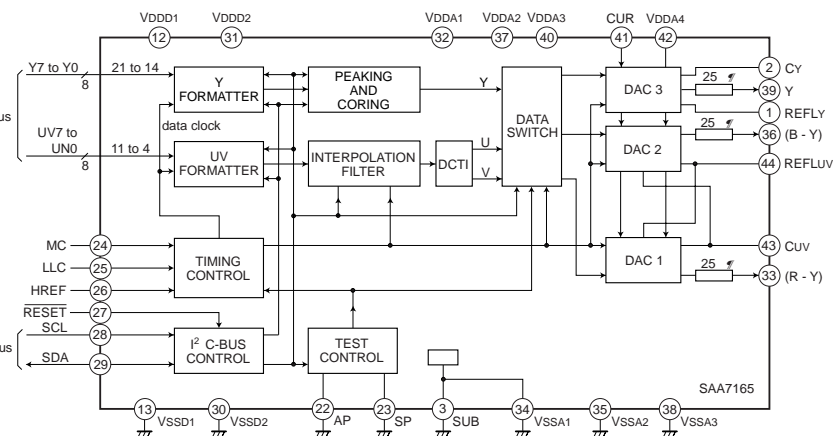
■ SAA7165WP (SUB VIDEO ASSY: IC4702)

VIDEO ENHANCEMENT D/A

● Pin Assignment



● Block Diagram



● Pin Function

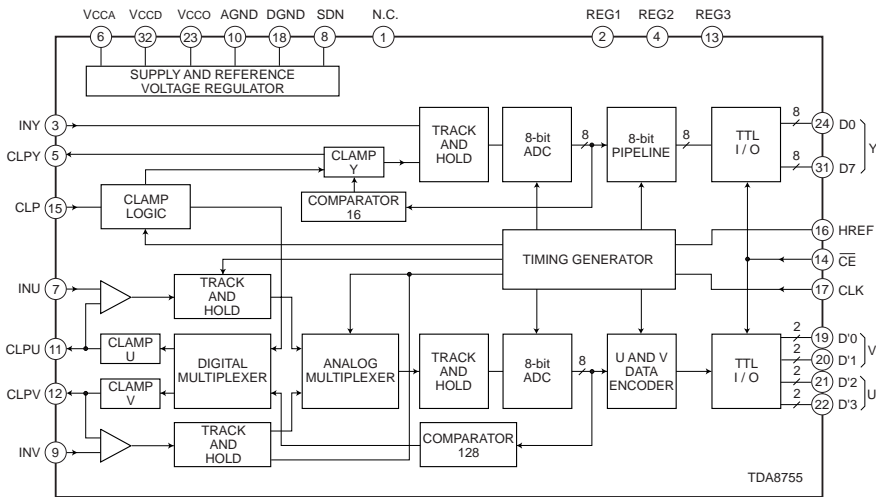
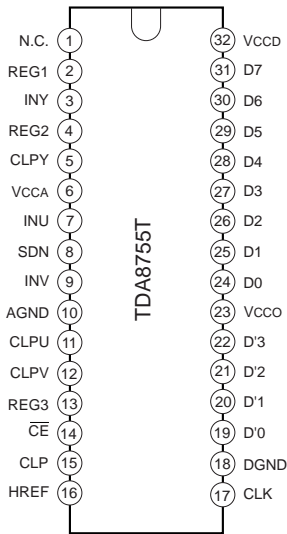
Pin No.	Pin Name	I/O	Function
1	REFL Y	I	Low reference of luminance DAC (connected to VSS A1)
2	CY	I	Capacitor for luminance DAC (high reference)
3	SUB	I	Substrate (connected to VSS A1)
4	UV0	I	UV signal input bit UV7 (digital colour-difference signal)
5	UV1	I	UV signal input bit UV6 (digital colour-difference signal)
6	UV2	I	UV signal input bit UV5 (digital colour-difference signal)
7	UV3	I	UV signal input bit UV4 (digital colour-difference signal)
8	UV4	I	UV signal input bit UV3 (digital colour-difference signal)
9	UV5	I	UV signal input bit UV2 (digital colour-difference signal)
10	UV6	I	UV signal input bit UV1 (digital colour-difference signal)
11	UV7	I	UV signal input bit UV0 (digital colour-difference signal)
12	VDD D1	—	+5V digital supply voltage 1
13	VSS D1	—	Digital ground 1 (0 V)
14	Y0	I	Y signal input bit Y7 (digital luminance signal)
15	Y1	I	Y signal input bit Y6 (digital luminance signal)
16	Y2	I	Y signal input bit Y5 (digital luminance signal)
17	Y3	I	Y signal input bit Y4 (digital luminance signal)
18	Y4	I	Y signal input bit Y3 (digital luminance signal)
19	Y5	I	Y signal input bit Y2 (digital luminance signal)
20	Y6	I	Y signal input bit Y1 (digital luminance signal)
21	Y7	I	Y signal input bit Y0 (digital luminance signal)
22	AP	—	Connected to ground (action pin for testing)
23	SP	—	Connected to ground (shift pin for testing)
24	MC	I	Data clock CREF (e.g. 13.5MHz); at MC=HIGH, the LLC driver-by-two is inactive
25	LLC	I	Line-locked clock signal (LL27=27MHz)
26	HREF	I	Data clock for YUV data inputs (for active line 768Y or 640Y long)
27	RESET	I	Reset input (active LOW)

Pin No.	Pin Name	I/O	Function
28	SCL	I	I ² C-bus clock line
29	SDA	I	I ² C-bus data line
30	VSS D2	—	Digital ground 2(0V)
31	VDD D2	—	+5V digital supply voltage 2
32	VDD A1	—	+5V analog supply voltage for buffer of DAC 1
33	(R-Y)	O	± (R-Y) output signal (analog signal)
34	VSS A1	—	Analog ground 1(0V)
35	VSS A2	—	Analog ground 2(0V)
36	(B-Y)	O	± (B-Y) output signal (analog colour-difference signal)
37	VDD A2	—	+5V analog supply voltage for buffer of DAC 2
38	VSS A2	—	Analog ground 3 (0V)
39	Y	O	Y output signal (analog luminance signal)
40	VDD A3	—	+5V analog supply voltage for buffer of DAC 3
41	CUR	I	Current input for analog output buffers
42	VDD A4	—	Supply and reference voltage for the three DAC S
43	C UV	I	Capacitor for chrominance DAC S (high reference)
44	REF L UV	I	Low reference of chrominance DAC S (connected to VSS A1)

■ TDA8755T (SUB VIDEO ASSY: IC4703)
VIDEO A/D CONVERTER

● Pin Assignment

● Block Diagram



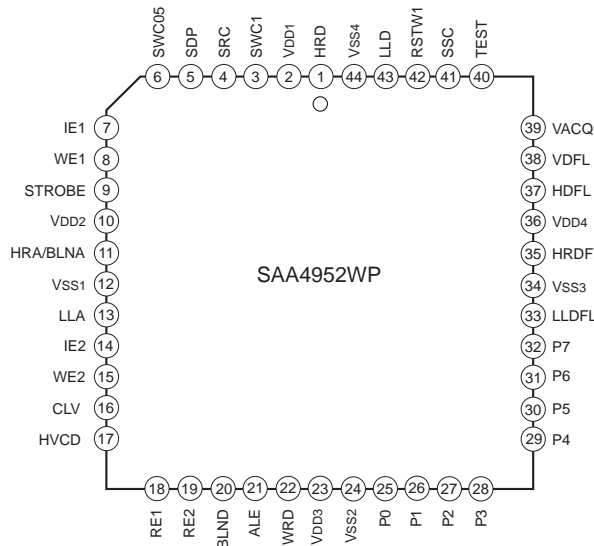
● Pin Function

Pin No.	Pin Name	I/O	Function
1	NC	—	Not connected
2	REG1	I	Decoupling input (internal stabilization loop decoupling)
3	INY	I	Y analog voltage input
4	REG2	I	Decoupling input (internal stabilization loop decoupling)
5	CLPY	O	Y clamp capacitor connection
6	VCC A	—	Analog positive supply voltage (+5V)
7	INU	I	U analog voltage input
8	SDN	O	Stabilizer decoupling node and analog reference voltage (+3.35 V)
9	INV	I	V analog voltage input
10	AGND	—	Analog ground
11	CLPU	O	U clamp capacitor connection
12	CLPV	O	V clamp capacitor connection
13	REG3	I	Decoupling input (internal stabilization loop decoupling)
14	CE	I	Chip enable input (TTL level input active LOW)
15	CLP	I	Clamp control input
16	HREF	I	Horizontal reference signal
17	CLK	I	Clock input
18	DGND	—	Digital ground
19	D'0	O	V data output; bit 0 (n-1)
20	D'1	O	V data output; bit 1 (n)
21	D'2	O	U data output; bit 0 (n-1)
22	D'3	O	U data output; bit 1 (n)
23	VCC O	—	Positive supply voltage for output stages (+5V)
24	D0	O	Y data output; bit 0 (LSB)
25	D1	O	Y data output; bit 1
26	D2	O	Y data output; bit 2
27	D3	O	Y data output; bit 3
28	D4	O	Y data output; bit 4
29	D5	O	Y data output; bit 5
30	D6	O	Y data output; bit 6
31	D7	O	Y data output; bit 7 (MSB)
32	VCC D	—	Digital positive supply voltage (+5V)

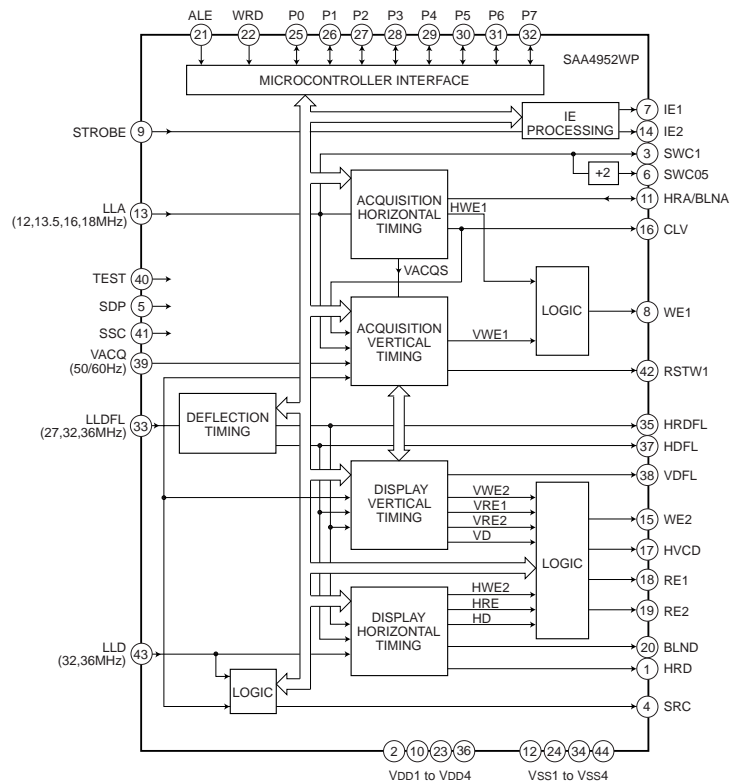
■ SAA4952WP (SUB VIDEO ASSY: IC4704)

MEMORY CONTROLLER

● Pin Assignment



● Block Diagram



● Pin Function

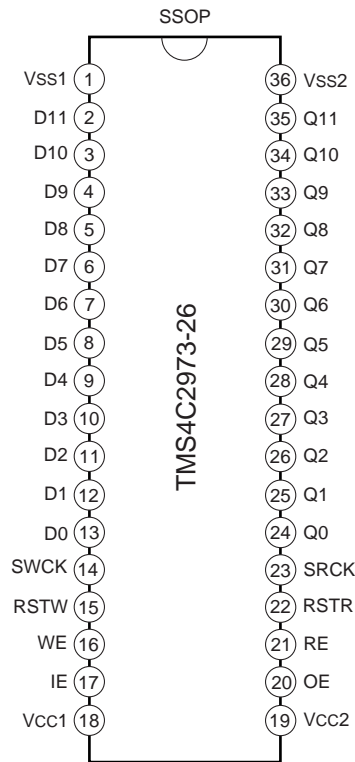
Pin No.	Pin Name	I/O	Function
1	HRD	O	Horizontal reference signal output (display PLL)
2	VDD 1	—	Supply voltage 1
3	SWC1	O	Serial write clock output for memory 1
4	SRC	O	Serial read clock output
5	SDP	I	Select deflection processor input
6	SWC05	O	Serial write clock output,SWC1 divided-by-2
7	IE1	O	Input enable signal output (memory 1)
8	WE1	O	Write enable signal output (memory 1)
9	STROBE	I	Strobe signal input
10	VCC 2	—	Supply voltage 2
11	HRA/BLNA	I/O	Horizontal reference signal output (acquisition part)/horizontal blanking signal input,reset for horizontal acquisition counters(acquisition part)
12	VSS 1	—	Ground 1
13	LLA	I	Line- locked cloack signal input (acquisition part)
14	IE2	O	Input enable signal output (memory 2)
15	WE2	O	Write enable signal output (memory 2)
16	CLV	O	Horizontal signal output (acquisition part)
17	HVCD	O	Horizontal,vertical or composite blanking signal output (display part)
18	RE1	O	Read enable signal output (memory 1)

● Pin Function

Pin No.	Pin Name	I/O	Function
19	RE2	O	Read enable signal output (memory 2)
20	BLND	O	Horizontal blanking signal output (display part)
21	ALE	I	Address latch enable signal input
22	WRD	I	Write/read data signal input
23	VCC 2	—	Supply voltage 3
24	VSS 2	—	Ground 2
25	P0	I/O	Data input/output signal bit 0
26	P1	I/O	Data input/output signal bit 1
27	P2	I/O	Data input/output signal bit 2
28	P3	I/O	Data input/output signal bit 3
29	P4	I/O	Data input/output signal bit 4
30	P5	I/O	Data input/output signal bit 5
31	P6	I/O	Data input/output signal bit 6
32	P7	I/O	Data input/output signal bit 7 (MSB = Most Significant Bit)
33	LLDFL	I	Line-locked clock signal input (deflection part)
34	VSS 3	—	Ground 3
35	HRDFL	O	Horizontal reference signal output (deflection part)
36	VDD 4	—	Supply voltage 4
37	HDFL	O	Horizontal synchronization signal output (deflection part)
38	VDFL	O	Vertical synchronization signal output (deflection part)
39	VACQ	I	Vertical synchronization signal input (deflection part)
40	TEST	I	Test input
41	SSC	I	Select signal clock system input
42	RSTW1	O	Reset write signal output (memory 1)
43	LLD	I	Line-locked clock signal input (display part)
44	VSS 4	—	Ground 4

■ TMS4C2973-26 (SUB VIDEO ASSY: IC4705, IC4706)
2.9M FIELD MEMORY

● Pin Assignment



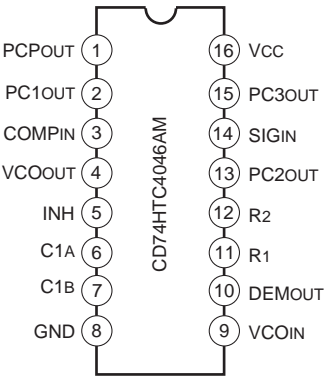
● Pin Function

Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	Vss1	—	Ground	19	Vcc2	—	3.3V power supply voltage
2	D11	I	Data input	20	OE	I	Output enable
3	D10	I	Data input	21	RE	I	Read enable
4	D9	I	Data input	22	RSTR	I	Serial read clock
5	D8	I	Data input	23	SRCK	I	Reset read
6	D7	I	Data input	24	Q0	O	Data output
7	D6	I	Data input	25	Q1	O	Data output
8	D5	I	Data input	26	Q2	O	Data output
9	D4	I	Data input	27	Q3	O	Data output
10	D3	I	Data input	28	Q4	O	Data output
11	D2	I	Data input	29	Q5	O	Data output
12	D1	I	Data input	30	Q6	O	Data output
13	D0	I	Data input	31	Q7	O	Data output
14	SWCK	I	Serial write clock	32	Q8	O	Data output
15	RSTW	I	Reset write	33	Q9	O	Data output
16	WE	I	Write enable	34	Q10	O	Data output
17	IE	I	Input enable	35	Q11	O	Data output
18	Vcc1	—	3.3V power supply voltage	36	Vss2	—	Ground

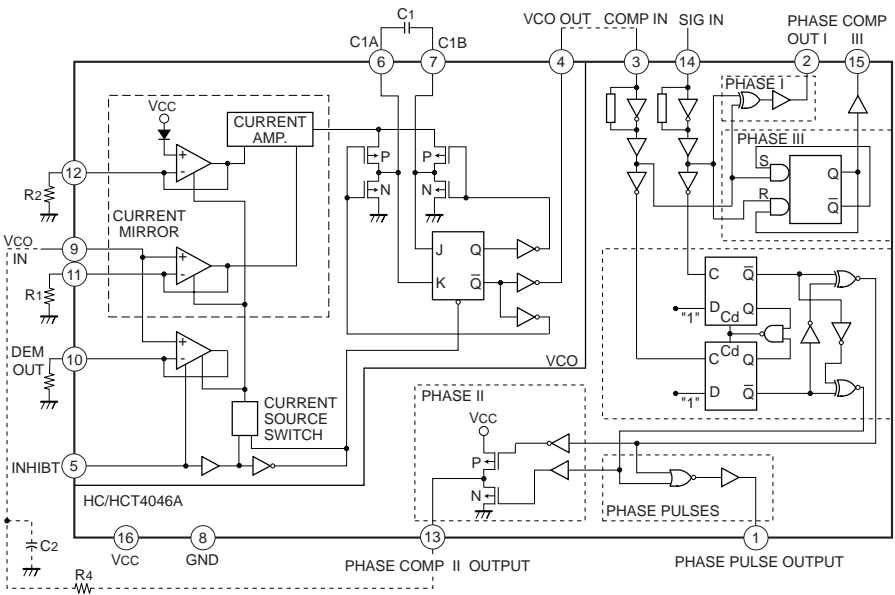
■ CD74HCT4046AM (SUB VIDEO ASSY: IC4713)

PLL IC

● Pin Assignment



● Block Diagram

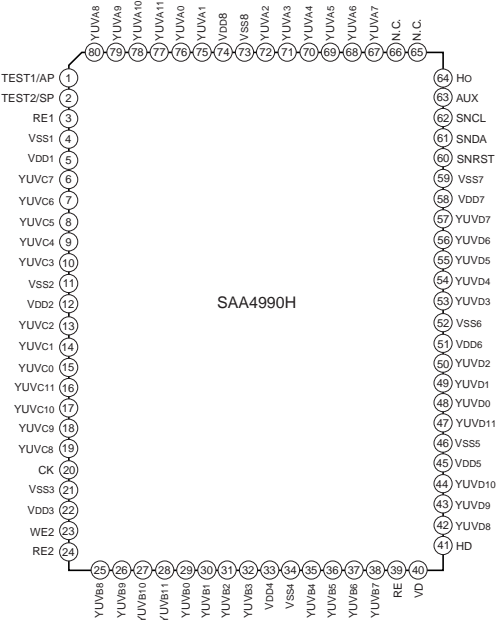


● Pin Function

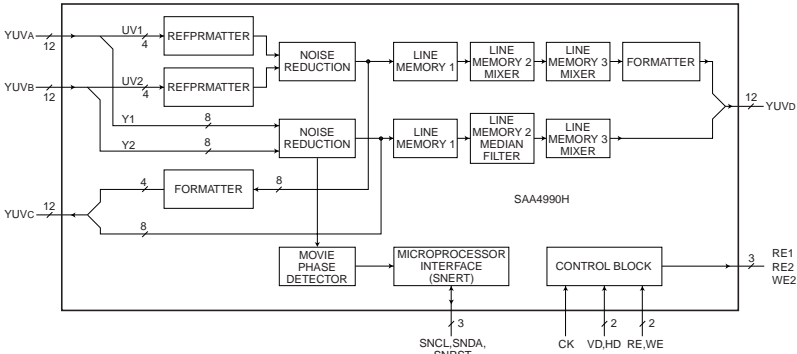
Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	PCPOUT	—	Phase comparator pulse output	9	VCOIN	—	VCO input
2	PC1OUT	—	Phase comparator 1 output	10	DEMOUT	—	Demodulator output
3	COMPIN	I	Comparator input	11	R1	—	Resistor R1 connection
4	VCOOUT	—	VCO output	12	R2	—	Resistor R2 connection
5	INH	I	Inhibit input	13	PC2OUT	O	Phase comparator 2 output
6	C1A	—	Capacitor C1 connection A	14	SIGIN	I	Signal input
7	C1B	—	Capacitor C1 connection B	15	PC3OUT	—	Phase comparator 3 output
8	GND	—	Ground(0V)	16	Vcc	—	Positive supply voltage

■ SAA4990H (SUB VIDEO ASSY: IC4719)
PROZONIC IC

● Pin Assignment



● Block Diagram



● Pin Function

Pin No.	Pin Name	I/O	Function
1	TEST1/AP	I	Action pin for testing to be connected to Vss
2	TEST2/SP	I	Shift pin for testing to be connected to Vss
3	RE1	O	Read enable to FM1
4	VSS 1	—	Ground 1
5	VDD 1	—	Supply voltage 1
6	YUV C7	O	Y bit 7 to FM2
7	YUV C6	O	Y bit 6 to FM2
8	YUV C5	O	Y bit 5 to FM2
9	YUV C4	O	Y bit 4 to FM2
10	YUV C3	O	Y bit 3 to FM2
11	VSS 2	—	Ground 2
12	VDD 2	—	Supply voltage 2
13	YUV C2	O	Y bit 2 to FM2
14	YUV C1	O	Y bit 1 to FM2
15	YUV C0	O	Y bit 0 to FM2
16	YUV C11	O	UV bit 3 to FM2
17	YUV C10	O	UV bit 2 to FM2
18	YUV C9	O	UV bit 1 to FM2
19	YUV C8	O	UV bit 0 to FM2
20	CK	I	Master clock,nominal 27 or 32 MHz
21	VSS 3	—	Ground 3
22	VDD 3	—	Supply voltage 3
23	WE2	O	Write enable to FM2
24	RE2	O	Read enable to FM2

● Pin Function

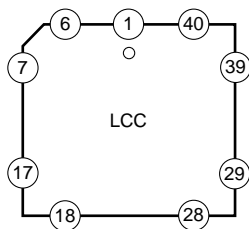
Pin No.	Pin Name	I/O	Function
25	YUV B8	I	UV bit 0 from FM2
26	YUV B9	I	UV bit 1 from FM2
27	YUV B10	I	UV bit 2 from FM2
28	YUV B11	I	UV bit 3 from FM2
29	YUV B0	I	Y bit 0 from FM2
30	YUV B1	I	Y bit 1 from FM2
31	YUV B2	I	Y bit 2 from FM2
32	YUV B3	I	Y bit 3 from FM2
33	VDD 4	—	Supply voltage 4
34	VSS 4	—	Ground 4
35	YUV B4	I	Y bit 4 from FM2
36	YUV B5	I	Y bit 5 from FM2
37	YUV B6	I	Y bit 6 from FM2
38	YUV B7	I	Y bit 7 from FM2
39	RE	I	Master read enable
40	VD	I	Field frequent reset, vertical display
41	HD	I	Horizontal reference signal
42	YUV D8	O	UV bit 0
43	YUV D9	O	UV bit 1
44	YUV D10	O	UV bit 2
45	VDD 5	—	Supply voltage 5
46	VSS 5	—	Ground 5
47	YUV D11	O	UV bit 3
48	YUV D0	O	Y bit 0
49	YUV D1	O	Y bit 1
50	YUV D2	O	Y bit 2
51	VDD 6	—	Supply voltage 6
52	VSS 6	—	Ground 6
53	YUV D3	O	Y bit 3
54	YUV D4	O	Y bit 4
55	YUV D5	O	Y bit 5
56	YUV D6	O	Y bit 6
57	YUV D7	O	Y bit 7
58	VDD 7	—	Supply voltage 7
59	VSS 7	—	Ground 7
60	SNRST	I	Field frequent reset from microcontroller;reset for SNERT interface
61	SNDA	I/O	Data for SNERT interface
62	SNCL	I	Clock for SNERT interface
63	AUX	O	Spre output form line-sequencer
64	Ho	O	Output hold to e.g.LC.display
65	NC	—	Not connected
66	NC	—	Not connected
67	YUV A7	I	Y bit 7 from FM1
68	YUV A6	I	Y bit 6 from FM1
69	YUV A5	I	Y bit 5 from FM1

Pin No.	Pin Name	I/O	Function
70	YUV A4	I	Y bit 4 from FM1
71	YUV A3	I	Y bit 3 from FM1
72	YUV A2	I	Y bit 2 from FM1
73	VSS 8	—	Ground 8
74	VDD 8	—	Supply voltage 8
75	YUV A1	I	Y bit 1 from FM1
76	YUV A0	I	Y bit 0 from FM1
77	YUV A11	I	UV bit 3 from FM1
78	YUV A10	I	UV bit 2 from FM1
79	YUV A9	I	UV bit 1 from FM1
80	YUV A8	I	UV bit 0 from FM1

■ PE6002A9 (SUB VIDEO ASSY: IC4720)

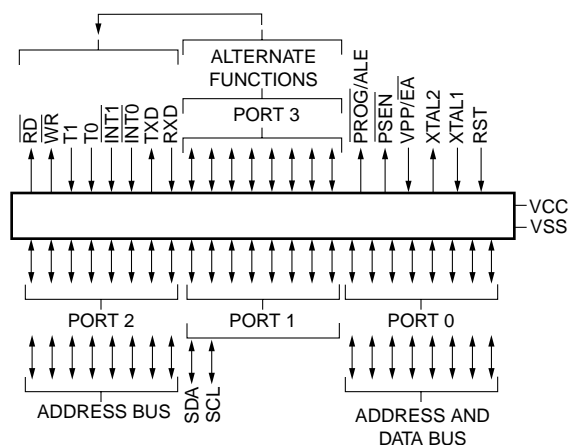
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● Pin Assignment

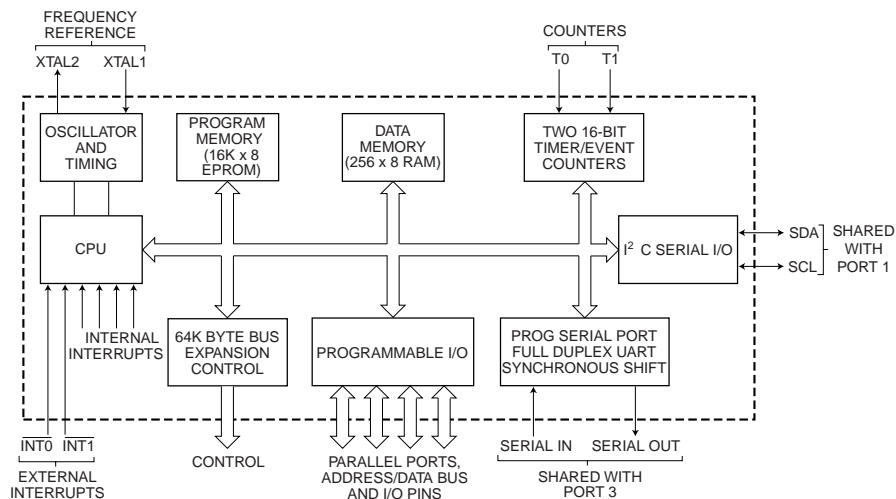


Pin	Function	Pin	Function
1	N.C.	23	NC8
2	P1.0	24	P2.0/A8
3	P1.1	25	P2.1/A9
4	P1.2	26	P2.2/A10
5	P1.3	27	P2.3/A11
6	P1.4	28	P2.4/A12
7	P1.5	29	P2.5/A13
8	P1.6/SCL	30	P2.6/A14
9	P1.7/SDA	31	P2.7/A15
10	RST	32	PSEN
11	P3.0/RxD	33	ALE/PROG
12	NC8	34	NC8
13	P3.1/TxD	35	EA/VPP
14	P3.2/INT0	36	P0.7/AD7
15	P3.3/INT1	37	P0.6/AD6
16	P3.4/T0	38	P0.5/AD5
17	P3.5/T1	39	P0.4/AD4
18	P3.6/WR	40	P0.3/AD3
19	P3.7/RD	41	P0.2/AD2
20	XTAL2	42	P0.1/AD1
21	XTAL1	43	P0.0/AD0
22	VSS	44	VCC

● Logic

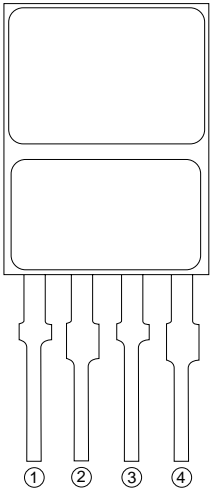


● Block Diagram

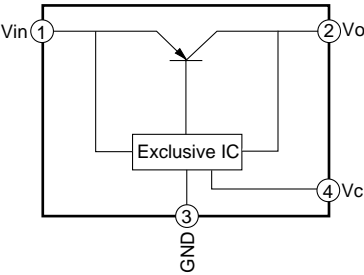


■ PQ05RD1B (SIGNAL ASSY: IC7007, IC7105)
REGULATOR

● Pin Assignment



● Block Diagram

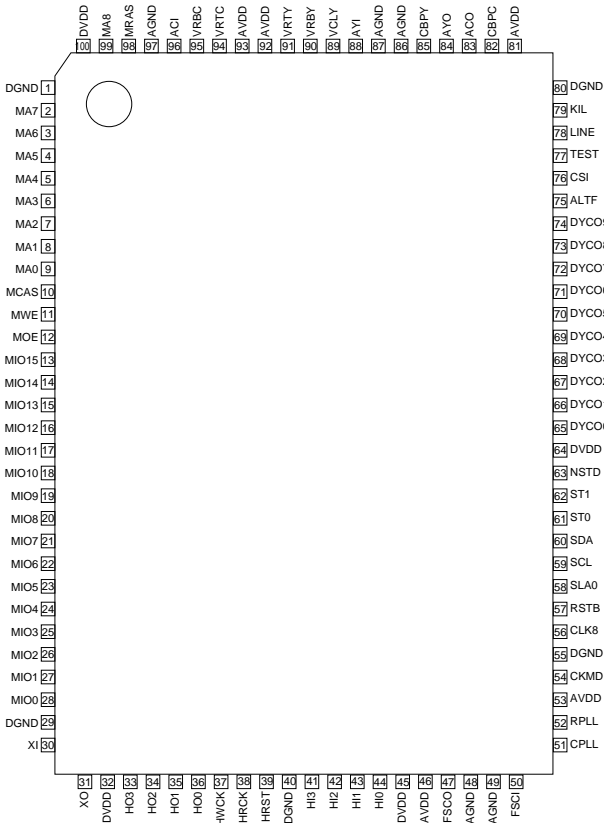


● Pin Function

Pin No.	Function	I/O
1	DC input (Vin)	I
2	DC output (Vo)	O
3	GND	—
4	ON/OFF control (Vc)	I

■ uPD64081BGF-3BA (SIGNAL ASSY: IC7002)
3D Y/C SEPARATION IC

● Pin Assignment



● Pin Function

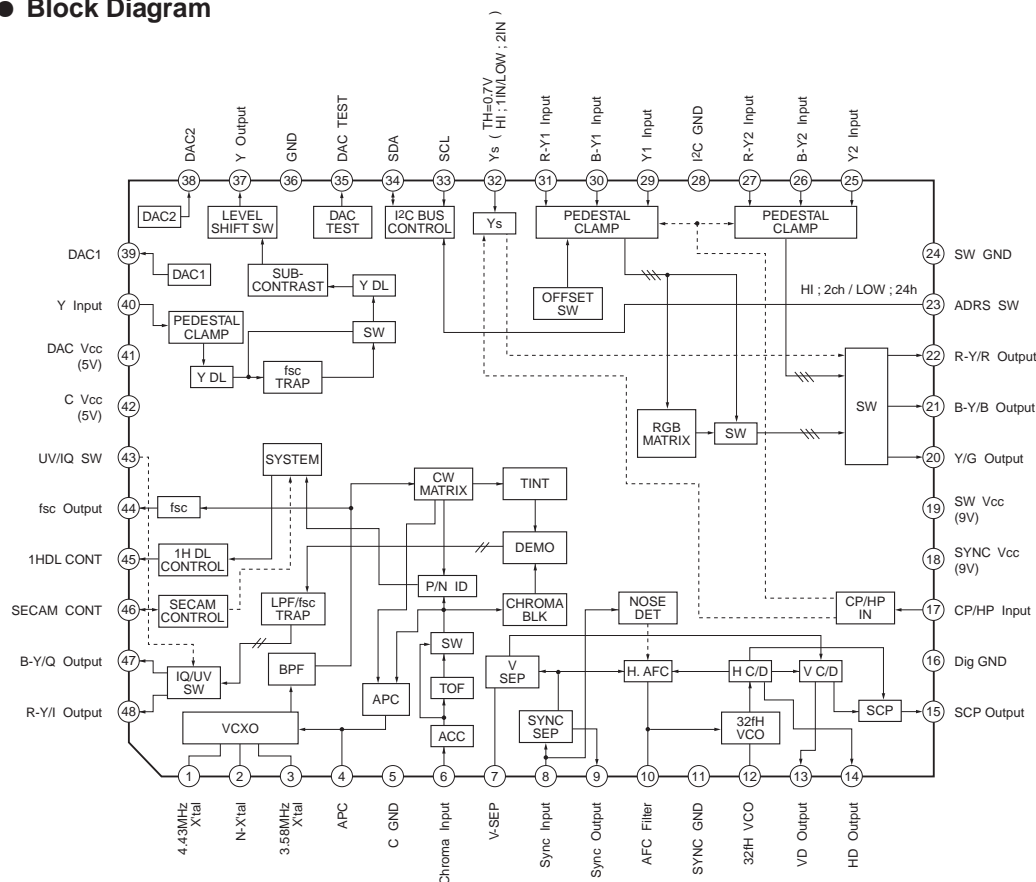
Pin No.	Pin Name	I/O	Function
1	DGND	–	Digital block ground
2	MA7	O	Address output for external EDO memory
3	MA6	O	
4	MA5	O	
5	MA4	O	
6	MA3	O	
7	MA2	O	
8	MA1	O	
9	MA0	O	
10	MCAS	O	CAS output for external EDO memory (Active low)
11	MWE	O	WE output for external EDO memory (Active low)
12	MOE	O	OE output for external EDO memory (Active low)
13	MIO15	I/O	Data input/output for external EDO memory
14	MIO14	I/O	
15	MIO13	I/O	
16	MIO12	I/O	
17	MIO11	I/O	
18	MIO10	I/O	
19	MIO9	I/O	
20	MIO8	I/O	
21	MIO7	I/O	
22	MIO6	I/O	
23	MIO5	I/O	
24	MIO4	I/O	
25	MIO3	I/O	
26	MIO2	I/O	
27	MIO1	I/O	
28	MIO0	I/O	
29	DGND	–	fsc generator digital block ground
30	XI	I	fsc generator reference clock input (Connected to X'tal)
31	XO	O	fsc generator reference clock reversal output (Connected to X'tal)
32	DVDD	–	fsc generator digital block power
33	HO3 (MSB)-(LSB)	O	External field memory data output (Open when not used)
34	HO2 (MSB)-(LSB)	O	
35	HO1 (MSB)-(LSB)	O	
36	HO0 (MSB)-(LSB)	O	
37	HWCK	O	Write clock output for external field memory (Open when not used)
38	HRCK	O	Read clock output for external field memory (Open when not used)
39	HRST	O	Reset signal output for external field memory (Open when not used)
40	DGND	–	Digital block ground
41	HI3 (MSB)-(LSB)	I	Input for external field memory (Connected to GND when not used)
42	HI2 (MSB)-(LSB)	I	Input for external field memory (Connected to GND when not used)
43	HI1 (MSB)-(LSB)	I	Input for external field memory (Connected to GND when not used)
44	HI0 (MSB)-(LSB)	I	Input for external field memory (Connected to GND when not used)
45	DVDD	–	Digital block power supply

Pin No.	Pin Name	I/O	Function
46	AVDD	–	fsc generator DAC block power supply
47	FSCO	–	fsc generator fsc output
48	AGND	–	fsc generator DAC block ground
49	AGND	–	8fsc-PLL ground
50	FSCI	–	8fsc-PLL fsc input
51	CPLL	–	8fsc-PLL filter output (Opened or connected to GND)
52	RPLL	–	8fsc-PLL frequency compensation output
53	AVDD	–	8fsc-PLL power supply
54	CKMD	I	Clock mode test input (Opened or connected to GND)
55	DGND	–	Digital block ground
56	CLK8	O	8fsc clock output
57	RSTB	I	System reset input (Active Low) (Inputs active low reset pulses from outside)
58	SLA0	I	I ² C bus slave address selection input (L:B8/B9h, H:BA/BBh)
59	SCL	I	I ² C bus clock input (Connected to system SCL line)
60	SDA	I/O	I ² C bus data input/output (Connected to system SDA line)
61	ST0	O	Internal signal monitor output
62	ST1	O	Internal signal monitor output
63	NSTD	O	Non-standard detection monitor output (L:Standard determination, H:Non-standard determination)
64	DVDD	–	Digital block power supply
65	DYCO0 (LSB)-(MSB)	I/O	EXADINS=0, digital YC signal alternate output EXADINS=1, external Y-ADC data input
66	DYCO1 (LSB)-(MSB)	I/O	
67	DYCO2 (LSB)-(MSB)	I/O	
68	DYCO3 (LSB)-(MSB)	I/O	
69	DYCO4 (LSB)-(MSB)	I/O	
70	DYCO5 (LSB)-(MSB)	I/O	
71	DYCO6 (LSB)-(MSB)	I/O	
72	DYCO7 (LSB)-(MSB)	I/O	
73	DYCO8 (LSB)-(MSB)	I/O	
74	DYCO9 (LSB)-(MSB)	I/O	
75	ALTF	O	EXADINS=0, digital YC signal alternate flag output (LY, HC) EXADINS=1, external Y-ADC 4fsc clock output
76	CSI	I	Composite sync input (Active low)
77	TEST	I	IC selection test pin (Opened or connected to GND)
78	LINE	I	Forced inter-line processing selection input (L:Normal processing, H:Forced inter-line processing)
79	KIL	I	External killer input (L:Normal processing, H:Forced YC separation stop)

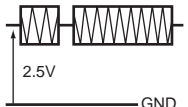
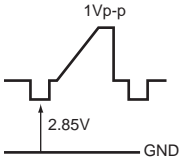
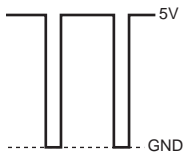
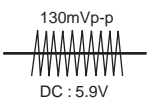

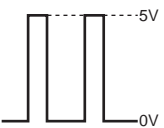
Pin No.	Pin Name	I/O	Function
80	DGND	–	Digital block ground
81	AVDD	–	Y-DAC, C-DAC power supply
82	CBPC	O	C-DAC phase compensation output
83	ACO	O	C-DAC analog C signal output
84	AYO	O	Y-DAC analog Y signal output
85	CBPY	O	Y-DAC phase compensation output
86	AGND	–	Y-ADC, C-DAC ground
87	AGND	–	Y-DAC ground
88	AYI	I	Y-ADC analog composite signal/Y signal input
89	VCLY	O	Y-ADC clamp potential output
90	VRBY	O	Y-ADC bottom reference voltage output
91	VRTY	O	Y-ADC top reference voltage output
92	AVDD	–	Y-ADC, C-ADC power supply
93	AVDD	–	Y-ADC, C-ADC power supply
94	VRTC	O	C-ADC top reference voltage output
95	VRBC	O	C-ADC bottom reference voltage output
96	ACI	I	C-ADC analog C signal input
97	AGND	–	C-ADC ground
98	MRAS	O	RAS output for external EDO memory (Active low)
99	MA8	O	Address output for external EDO memory
100	DVDD	–	Digital block power supply

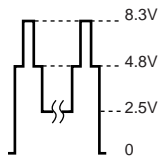
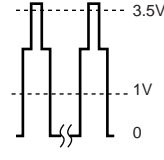
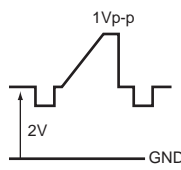
■ TA1270AF (SIGNAL ASSY: IC7100, IC7300)
COLOR DEMODULATION SYNC SEPARATION IC

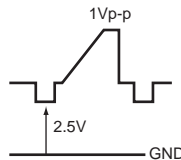
- **Block Diagram**



● Pin Function

Pin No.	Pin Name	I/O	Function	I/O Signal
1	4.43 MHz X'tal	I	Connected to X'tal. Oscillation frequency f_0 and frequency adjustment range can be changed in series capacity and parallel capacity respectively. Frequency adjustment range for oscillation frequency f_0 with series capacity can be changed to parallel capacity.	DC 4.0V 90 mVp-p
2	N-X'tal	I		
3	3.58 MHz X'tal	I		
4	APC	I	Connected to the chroma demodulation APC filter. VCXO oscillation frequency is determined by the voltage of this pin.	DC
5	C GND	—	Chroma processing circuit GND pin.	—
6	Chroma input	I	Chroma input pin. Inputs Y/C separated chroma signal.	Burst signal 300mVp-p 
7	V-SEP	I	Connected to the filter for vertical sync separation.	DC 6.4V
8	Sync input	I	Sync separation circuit input.	
9	Sync output	O	Outputs the sync signal separated in the sync separation circuit.	
10	AFC filter	I	Connected to the filter for horizontal AFC. Horizontal output frequency is determined by the voltage of this pin.	DC
11	SYNC GND	—	GND pin of the sync processing circuit.	—
12	32fH VCO	O	Connected to the ceramic oscillator for horizontal oscillation.	
13	VP output	O	Vertical pulse output.	
14	HD output	O	Outputs the HD pulse imposed with AFC.	

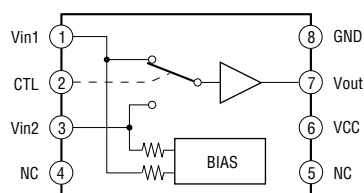
Pin No.	Pin Name	I/O	Function	I/O Signal
15	SCP output	O	Outputs the SCP (Sand Castle Pulse). The output signals are clamp pulse, horizontal blanking pulse, and vertical blanking.	
16	Dig GND	—	Logic block GND pin.	—
17	CP/HP input	I	Input pin for the CP/HP pulse for operating the SW circuit. CP is used as the clamp pulse and HP as the blanking pulse.	
18	SYNC Vcc	—	VCC pin for sync processing block and SW block.	—
19	SW Vcc	—	Connected to 9V (standard).	
20	Y/G output	O	Outputs Y/B-Y/R-Y or R/G/B. Switches the YUV/RGB output by bus setting,	
21	B-Y/B output	O		
22	R-Y/R output	O		
23	ADRS SW	I	Pin for switching the slave address. GND - 24H, VCC - 2CH	2CH — 0.7V 24H — GND
24	SW GND	—	GND pin for switch block.	—
25	Y2 input	I	Input pin for Y2/B-Y2/R-Y2 (YUV2 input) or R2/G2/B2.	
26	B-Y2 input	I		
27	R-Y2 input (YUV2)	I		
28	I ² C GND	—	I ² C block GND pin.	—
29	Y1 input	I	Input pin for Y1/B-Y1/R-Y1 (YUV1 input) or R1/G1/B1.	
30	B-Y1 input	I		
31	R-Y1 input (YUV1)	I		
32	Ys	I	High speed SW for switching the input of pins 25, 26, 27 (YUV2) and 29, 30, 31 (YUV1). Threshold is 0.7V.	YUV1 — 0.7V YUV2 — GND
33	SCL	I	SCL pin for I ² C bus.	—
34	SDA	I/O	SDA pin for I ² C bus.	—
35	DAC TEST	O	DAC monitor pin for IC shipping test.	—
36	GND	—	GND pin.	—
37	Y output	O	Outputs the Y signal passing through the fsc TRAP (can be turned ON/OFF by BUS) and Y delay line circuit.	
38	DAC2	O	1 bit DAC output pin.	—
39	DAC1	O		

Pin No.	Pin Name	I/O	Function	I/O Signal
40	Y input	I	Input pin for composite video signal or Y signal.	
41	DAC Vcc	—	VCC pin for DAC block and chroma processing block.	—
42	C Vcc	—	Connected to 5V (standard).	
43	UV/IQ SW	I	Switches between UV demodulation and IQ demodulation. UV demodulation is set when this pin is open and IQ demodulation is set when GND.	UV — 0.7V IQ — 0
44	fsc output	O	Outputs the X'tal oscillation. The pin voltage becomes high only when 3.58 NTSC is received.	AC ; 0.6Vp-p DC ; 3.58NTSC : 3.2V Others : 1.4V
45	1HDL CONT	O	Outputs the PAL/SECAM/NTSC differentiation results.	4.3V ; PAL 2.5V ; SECAM 0V ; NTSC
46	SECAM CONT	I/O	Input/output pin to control the SECAM demodulation IC. Determined as SECAM when more than 250 @u@A current is pulled from this pin.	When PAL/NTSC : 4.0V When SECAM (White/black): 0.75V
47	B-Y/Q output	O	The B-Y (U) signal or Q signal is output. Incorporates the LPF for eliminating the carrier inside.	DC ; 2.5V Rainbow color bar ; 360 mVp-p
48	R-Y/I output	O	Outputs the R-Y (V) signal or I signal. Incorporates an LPF for eliminating carrier.	DC ; 2.5V Rainbow color bar ; 360 mVp-p

■ NJM2233BM (SIGNAL ASSY: IC7103, IC7303, IC7305, IC7306)

VIDEO SW

● Block Diagram

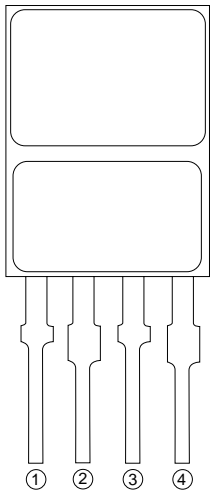


● Control Input – Output Signal

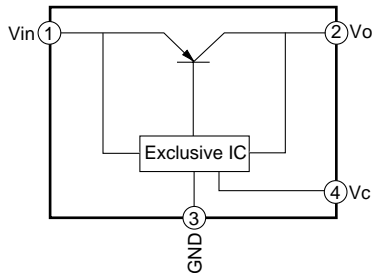
CTL	Function
L	Vin1
H	Vin2

■ PQ09RD1B (SIGNAL ASSY: IC7106)
REGULATOR

● Pin Assignment



● Block Diagram

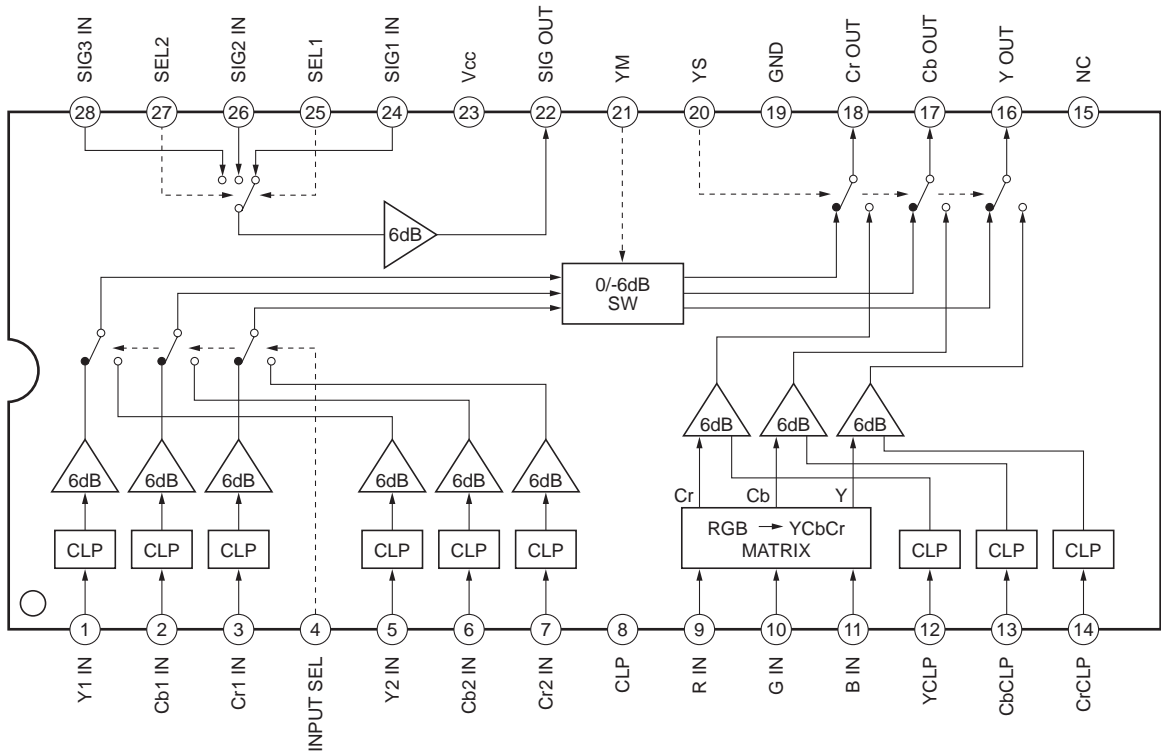


● Pin Function

Pin No.	Function	I/O
1	DC input (Vin)	I
2	DC output (Vo)	O
3	GND	-
4	ON/OFF control (Vc)	I

■ CXA2119M (SIGNAL ASSY: IC7250) (For SIGNAL ASSY AWW1725)
Y COLOR DIFFERENCE I/F SW

● Block Diagram



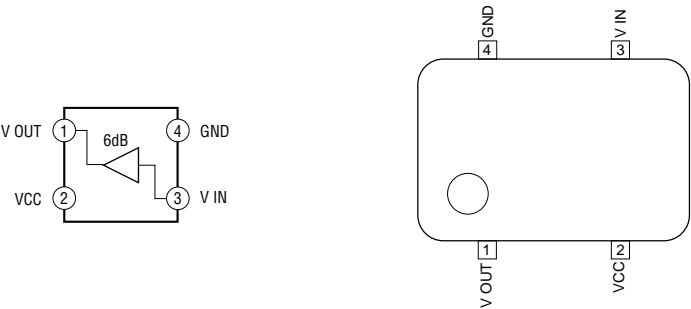
● Pin Function

Pin No.	Pin Name	I/O	Function															
1	Y1 IN	I	Pin for inputting the YCbCr signal.															
2	Cb1 IN	I	Inputs the YCbCr specifications (0.7 Vp-p for 100% color bar) signal.															
3	Cr1 IN	I	The pedestal level of the input signal is clamped at 4V.															
4	INPUT SEL	I	Pin for controlling the selection SW of 2-line YCbCr input. High:Selects the Y1, Cb1, Cr1 input, Low:Selects the Y2, Cb2, Cr2 input VILMAX=1V, VIHMIN=3V															
5	Y2 IN	I	Pin for inputting the YCbCr signal.															
6	Cb2 IN	I	Inputs the YCbCr specifications (0.7 Vp-p for 100% color bar) signal.															
7	Cr2 IN	I	The pedestal level of the input signal is clamped at 4V.															
8	CLP	I	Pin for inputting the clamp pulse. High:CLP ON, Low:CLP OFF VILMAX=2.5V, VIHMIN=4V															
9	R IN	I	Pin for inputting the R signal.															
10	G IN	I	Pin for inputting the G signal.															
11	B IN	I	Pin for inputting the B signal.															
12	YCLP	I	Capacity connection pin for clamping the Y signal made from the RGB signal.															
13	CbCLP	I	Capacity connection pin for clamping the Cb signal made from the RGB signal.															
14	CrCLP	I	Capacity connection pin for clamping the Cr signal made from the RGB signal.															
15	NC	I	NC pin.															
16	Y OUT	O	Output pin of Y signal. The output pedestal level is 3.8V.															
17	Cb OUT	O	Output pin of Cb signal. The output pedestal level is 3.8V.															
18	Cr OUT	O	Output pin of Cr signal. The output pedestal level is 3.8V.															
19	GND	—	GND pin.															
20	YS	I	YSSW control pin. High:Selects the RGB input, Low:Selects the YCbCr input VILMAX=1V, VIHMIN=3V Pin for controlling YMSW.															
24	YM	I	High:Selects the -6 dB signal., Low:Selects the 0 dB signal. VILMAX=1V, VIHMIN=3V															
22	SIG OUT	O	Output pin for SIG1, SIG2, and SIG3. Outputs the 6dB signal of the input signal. The APL of the signal becomes 4.4V when output.															
23	Vcc	—	Vcc pin.															
24	SIG1 IN	I	Pin for inputting the composite video signal. Inputs the 1Vp-p (100% white including Sync) signal via the capacity.															
25	SEL1	I	Control pin for the output selection SW of the 3 input composite video signals. <table border="1"><tr><td>SEL1</td><td>SEL2</td><td>SIG OUT</td></tr><tr><td>Low</td><td>Low</td><td>SIG1</td></tr><tr><td>High</td><td>Low</td><td>SIG2</td></tr><tr><td>Low</td><td>High</td><td>SIG3</td></tr><tr><td>High</td><td>High</td><td>Prohibited</td></tr></table> VILMAX=0.5V, VIHMIN=3.5V	SEL1	SEL2	SIG OUT	Low	Low	SIG1	High	Low	SIG2	Low	High	SIG3	High	High	Prohibited
SEL1	SEL2	SIG OUT																
Low	Low	SIG1																
High	Low	SIG2																
Low	High	SIG3																
High	High	Prohibited																
26	SIG2 IN	I	Pin for inputting the composite video signal. Inputs the 1Vp-p (100% white including Sync) signal via the capacity.															

Pin No.	Pin Name	I/O	Function															
27	SEL2	I	<div>Control pin for the output selection SW of the 3 input composite video signals.</div> <table><tr><td>SEL1</td><td>SEL2</td><td>SIG OUT</td></tr><tr><td>Low</td><td>Low</td><td>SIG1</td></tr><tr><td>High</td><td>Low</td><td>SIG2</td></tr><tr><td>Low</td><td>High</td><td>SIG3</td></tr><tr><td>High</td><td>High</td><td>Prohibited</td></tr></table> <div>VILMAX=0.5V, VIHMIN=3.5V</div>	SEL1	SEL2	SIG OUT	Low	Low	SIG1	High	Low	SIG2	Low	High	SIG3	High	High	Prohibited
				SEL1	SEL2	SIG OUT												
				Low	Low	SIG1												
				High	Low	SIG2												
				Low	High	SIG3												
				High	High	Prohibited												
28	SIG3 IN	I	<div>Pin for inputting the composite video signal.</div> <div>Inputs the 1Vp-p (100% white including Sync) signal via the capacity.</div>															

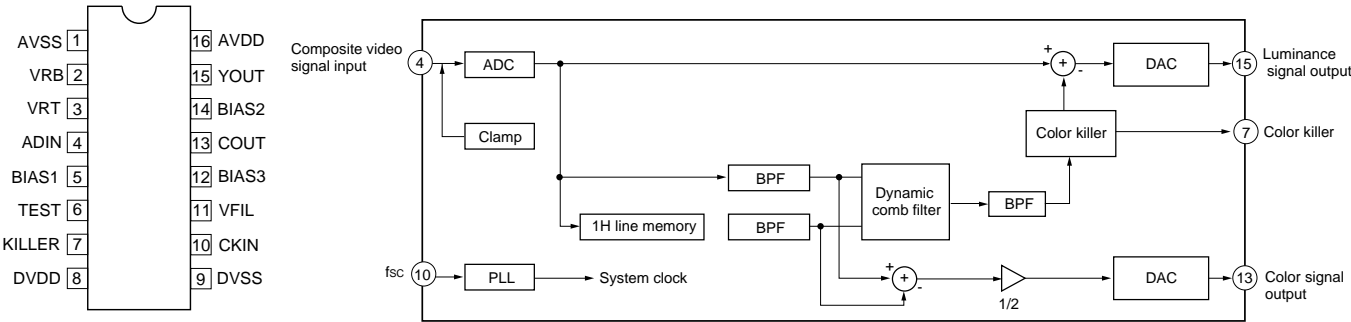
■ MM1031XM (SIGNAL ASSY: IC7301, IC7304, IC7500, IC7605)
VIDEO AMP

● Block Diagram



■ TC90A45F (SIGNAL ASSY: IC7307)
2 LINE DIGITAL Y/C SEP IC

● Pin Assignment ● Block Diagram



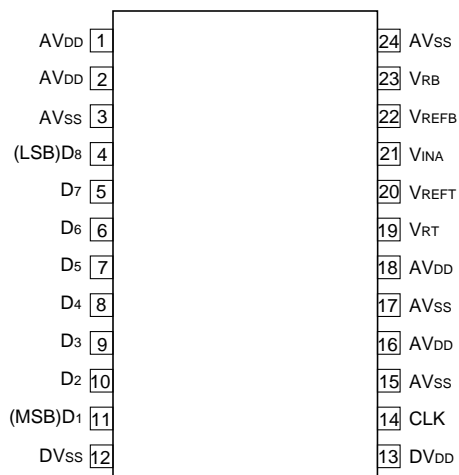
● Pin Function

Pin No.	Pin Name	I/O	Function
1	AVSS	–	Analog GND
2	VRB	–	Reference pin for ADC.
3	VRT	–	Reference pin for ADC.
4	ADIN	I	Composite video signal input pin.
5	BIAS1	–	Bias pin for ADC.
6	TEST	–	TEST pin. Connected to the digital GND.
7	KILLER	I	Killer circuit setting pin. When set to H level, it will output signals without Y/C separation. Use this pin when inputting B/W signals. H: B/W mode (Y/C separation OFF), L: Normal Y/C separation mode
8	DVDD	–	Digital power supply (+5V)
9	DVSS	–	Digital GND
10	CKIN	I	Clock input.
11	VFIL	–	Connected to the VCO filter.
12	BIAS3	–	DAC bias pin.
13	COUT	O	C signal output
14	BIAS2	–	DAC bias pin.
15	YOUT	O	Y signal output
16	AVDD	–	Analog power supply (+5V)

■ MB40C568HPFV (SIGNAL ASSY: IC7503)

A/D CONVERTER

● Pin Assignment



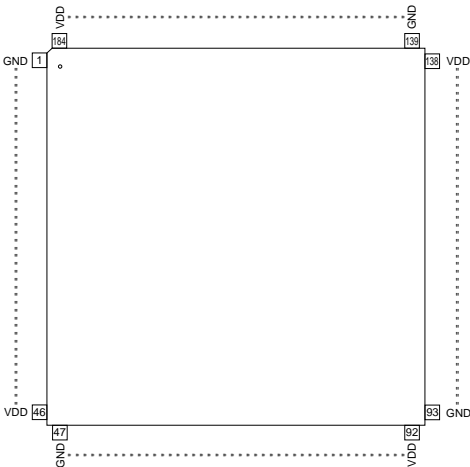
PRO-700HD

● Pin Function

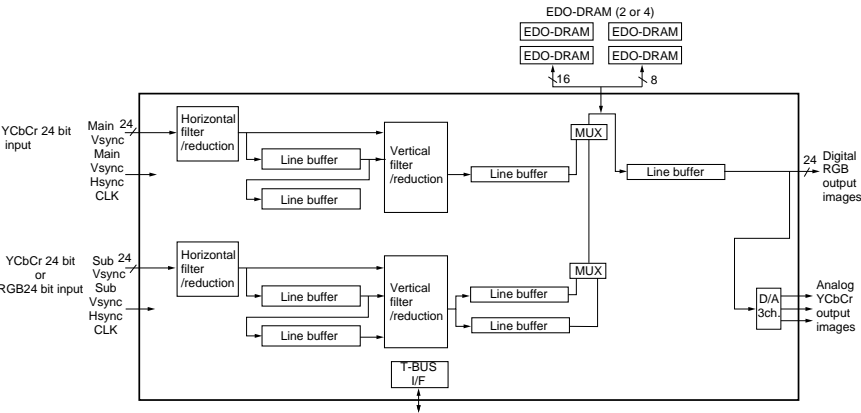
Pin No.	Pin Name	I/O	Function
1	AVDD	—	Analog power supply pin (+5 V)
2	AVDD	—	Analog power supply pin (+5 V)
3	AVSS	—	Analog power ground pin (0 V)
4	D8	O	Digital output pins. D1: MSB, D8: LSB
5	D7	O	
6	D6	O	
7	D5	O	
8	D4	O	
9	D3	O	
10	D2	O	
11	D1	O	
12	DVSS	—	Digital power ground pin (0 V)
13	DVDD	—	Digital power supply pin (+3 or +5 V)
14	CLK	I	Clock input pin
15	AVSS	—	Analog power ground pin (0 V)
16	AVDD	—	Analog power supply pin (+5 V)
17	AVSS	—	Analog power ground pin (0 V)
18	AVDD	—	Analog power supply pin (+5 V)
19	VRT	I	Reference voltage input pin (3 V)
20	VREFT	I	Reference voltage input pin (1 V)
21	VINA	I	Analog input pin. Input range: VRB to VRT (2 Vp-p between 0.5 to 4 V)
22	VREFB	O	Reference voltage output pin. When connected to VRB, the pin generates 0.2 x AVDD (1 V).
23	VRB	I	Reference voltage input pin (1 V)
24	AVSS	—	Analog power ground pin (0 V)

■ MA07132 (SIGNAL ASSY: IC7700)
TWIN PICTURE LSI

● Pin Assignment



● Block Diagram



● Pin Function

Pin No.	Pin Name	I/O	Function
1	GND	—	
2	Y7MI	I	Main screen Y signal input
3	Y6MI	I	
4	Y5MI	I	
5	Y4MI	I	
6	Y3MI	I	
7	Y2MI	I	
8	Y1MI	I	
9	Y0MI	I	
10	CB7MI	I	Main screen Cb signal input
11	CB6MI	I	
12	CB5MI	I	
13	CB4MI	I	
14	CB3MI	I	
15	CB2MI	I	
16	CB1MI	I	
17	CB0MI	I	
18	CR7MI	I	Main screen Cr signal input
19	CR6MI	I	
20	CR5MI	I	
21	CR4MI	I	
22	CR3MI	I	
23	VDD	—	
24	GND	—	
25	CR2MI	I	Main screen Cr signal input
26	CR1MI	I	
27	CR0MI	I	
28	CKMI	I	Main screen sync clock (32.5 MHz), Used as internal system clock.
29	HSMI	I	Main screen horizontal sync signal input
30	VSMI	I	Main screen vertical sync signal input
31	CLMPMO	O	Clamp pulse output for main screen
32	CK2MO	O	Clock output by frequency dividing CKMI
33	GND	—	
34	HSMO	O	Horizontal sync signal output after elimination of half pulse to main screen horizontal AFCIC
35	CPGDMO	O	Copy guard signal output for main screen
36	HREFMO	O	fH reference signal output to main screen horizontal AFCIC
37	CPMYO	O	Y signal clamp offset PWM output for main screen
38	CPMCBO	O	Cb signal clamp offset PWM output for main screen
39	CPMCRO	O	Cr signal clamp offset PWM output for main screen
40	Y7SI	I	Y signal input/R signal input for sub screen (When inputting VGA)
41	Y6SI	I	
42	Y5SI	I	
43	Y4SI	I	
44	Y3SI	I	
45	Y2SI	I	

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Pin No.	Pin Name	I/O	Function
46	VDD	—	
47	GND	—	
48	Y1SI	I	Y signal input/R signal input for sub screen (When inputting VGA)
49	Y0SI	I	
50	CB7SI	I	Cb signal input/G signal input for sub screen (When inputting VGA)
51	CB6SI	I	
52	CB5SI	I	
53	CB4SI	I	
54	CB3SI	I	
55	CB2SI	I	
56	CB1SI	I	
57	CB0SI	I	
58	CR7SI	I	Cr signal input/B signal input for sub screen (When inputting VGA)
59	CR6SI	I	
60	CR5SI	I	
61	CR4SI	I	
62	CR3SI	I	
63	CR2SI	I	
64	CR1SI	I	
65	CR0SI	I	
66	HSSI	I	Sub screen horizontal sync signal input
67	VSSI	I	Sub screen vertical sync signal input
68	CKSI	I	Sync clock for sub screen (32.5 MHz)
69	VDD	—	
70	GND	—	
71	CK2SO	O	Clock output by frequency dividing CKSI (No frequency dividing for VGA images)
72	HSSO	O	Horizontal sync signal output after eliminating half pulse to sub screen horizontal AFCIC
73	HREFSO	O	fH reference signal output to sub screen horizontal AFCIC
74	CPSYO	O	Y signal/R signal clamp offset PWM output for sub screen
75	CPSCBO	O	Cb signal/G signal clamp offset PWM output for sub screen
76	CPSCRO	O	Cr signal/B signal clamp offset PWM output for sub screen
77	CLMP SO	O	Clamp pulse output for sub screen
78	R7O	O	Display screen digital R signal output
79	R6O	O	
80	R5O	O	
81	R4O	O	
82	R3O	O	
83	R2O	O	
84	R1O	O	
85	R0O	O	
86	CPGDSO	O	Copy guard signal output for sub screen
87	G7O	O	Display screen digital G signal output
88	G6O	O	
89	G5O	O	
90	G4O	O	
91	G3O	O	

Pin No.	Pin Name	I/O	Function
92	VDD	–	
93	GND	–	
94	G2O	O	Display screen digital G signal output
95	G1O	O	
96	G0O	O	
97	WCKO	O	External D/A -C clock output for RGB output
98	GND	–	
99	B7O	O	Display screen digital B signal output
100	B6O	O	
101	B5O	O	
102	B4O	O	
103	B3O	O	
104	B2O	O	
105	B1O	O	
106	B0O	O	
107	TMC1I	I	Test input (Normally LOW input)
108	TBUSD	I/O	Tbus DATA signal input/output
109	TMC2I	I	Test input (Normally LOW input)
110	TBUSPI	I	Tbus PERIOD signal input
111	TBUSCI	I	Tbus CLOCK signal input
112	RSTI	I	Power on reset input
113	TEST2I	I	Test input (Normally LOW input)
114	TEST1I	I	Test input (Normally LOW input)
115	VDD	–	
116	GND	–	
117	N.C	–	
118	AVDD	–	
119	VOY	O	Display screen analog Y signal output
120	VOCB	O	Display screen analog Cb signal output
121	VOCR	O	Display screen analog Cr signal output
122	AGND	–	
123	AGND	–	
124	N.C	–	
125	VDD	–	
126	GND	–	
127	A8O	O	Address bus of DRAM for multi window
128	A7O	O	
129	A6O	O	
130	A5O	O	
131	VDD	–	
132	GND	–	
133	A4O	O	Address bus of DRAM for multi window
134	A3O	O	
135	A2O	O	
136	A1O	O	
137	A0O	O	

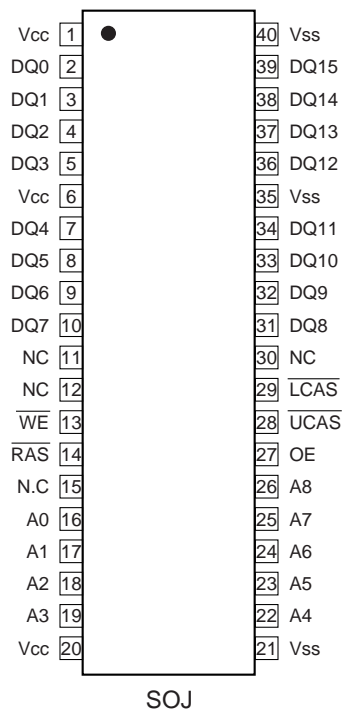
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Pin No.	Pin Name	I/O	Function
138	VDD	–	
139	GND	–	
140	CASB1O	O	LCAS, UCAS to DRAM 1 for multi window
141	GND	–	
142	CASB2O	O	LCAS, UCAS to DRAM 2 for multi window
143	GND	–	
144	RASB1O	O	RAS to DRAM 1 for multi window
145	VDD	–	
146	GND	–	
147	RASB2O	O	RAS to DRAM 2 for multi window
148	GND	–	
149	WEB1O	O	Write enable signal to DRAM 1 for multi window
150	OEB1O	O	Output enable signal to DRAM 1 for multi window
151	WEB2O	O	Write enable signal to DRAM 2 for multi window
152	OEB2O	O	Output enable signal to DRAM 2 for multi window
153	VDD	–	
154	GND	–	
155	YSO	O	Digital RGB output range signal
156	D23IO	I/O	Data bus of DRAM for multi window
157	D22IO	I/O	
158	D21IO	I/O	
159	D20IO	I/O	
160	D19IO	I/O	
161	VDD	–	
162	GND	–	
163	D18IO	I/O	Data bus of DRAM for multi window
164	D17IO	I/O	
165	D16IO	I/O	
166	D15IO	I/O	
167	D14IO	I/O	
168	D13IO	I/O	
169	D12IO	I/O	
170	GND	–	
171	D11IO	I/O	Data bus of DRAM for multi window
172	D10IO	I/O	
173	D9IO	I/O	
174	D8IO	I/O	
175	D7IO	I/O	
176	D6IO	I/O	
177	GND	–	
178	D5IO	I/O	Data bus of DRAM for multi window
179	D4IO	I/O	
180	D3IO	I/O	
181	D2IO	I/O	
182	D1IO	I/O	
183	D0IO	I/O	
184	VDD	–	

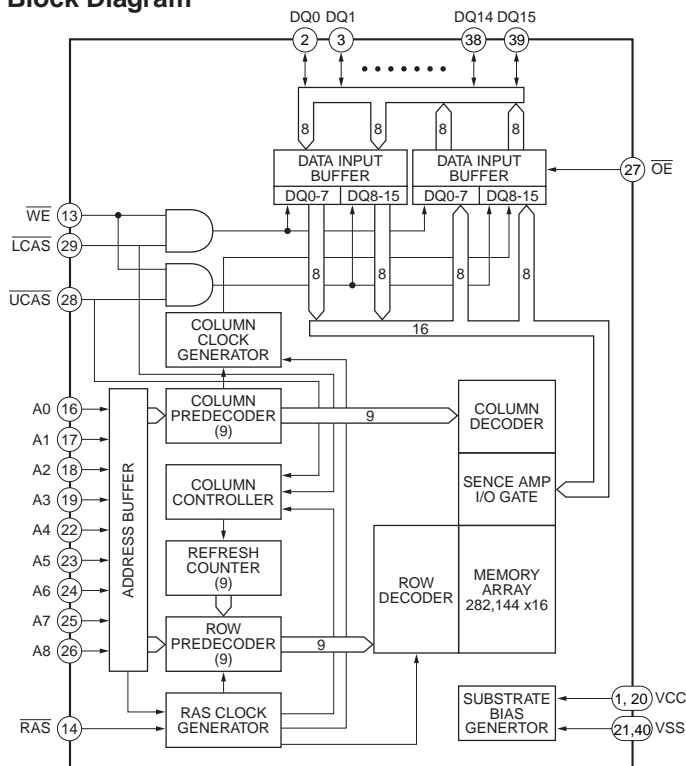
■ HY514264BJC-50A (SIGNAL ASSY: IC7003, IC7701, IC7702)

4M DRAM

● Pin Assignment



● Block Diagram



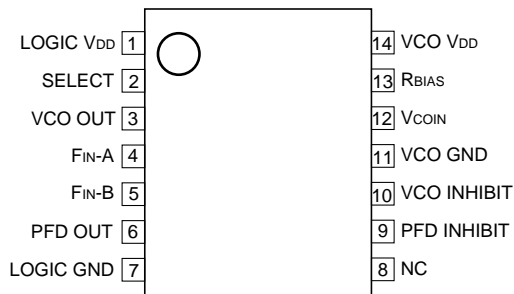
● Pin Function

Pin No.	Pin Name	Function	I/O	Pin No.	Pin Name	Function	I/O
1	Vcc	Power (+5V)	—	21	Vss	Ground	—
2	DQ0	Data I/O	I/O	22	A4	Address Input	I
3	DQ1	Data I/O	I/O	23	A5	Address Input	I
4	DQ2	Data I/O	I/O	24	A6	Address Input	I
5	DQ3	Data I/O	I/O	25	A7	Address Input	I
6	Vcc	Power (+5V)	—	26	A8	Address Input	I
7	DQ4	Data I/O	I/O	27	OE	Output Enable	O
8	DQ5	Data I/O	I/O	28	UCAS	Column Address Strobe	I
9	DQ6	Data I/O	I/O	29	LCAS	Column Address Strobe	I
10	DQ7	Data I/O	I/O	30	NC		—
11	NC		—	31	DQ8	Data I/O	I/O
12	NC		—	32	DQ9	Data I/O	I/O
13	WE	Write Enable	I	33	DQ10	Data I/O	I/O
14	RAS	Row Address Strobe	I	34	DQ11	Data I/O	I/O
15	NC		—	35	Vss	Ground	—
16	A0	Address Input	I	36	DQ12	Data I/O	I/O
17	A1	Address Input	I	37	DQ13	Data I/O	I/O
18	A2	Address Input	I	38	DQ14	Data I/O	I/O
19	A3	Address Input	I	39	DQ15	Data I/O	I/O
20	Vcc	Power (+5V)	—	40	Vss	Ground	—

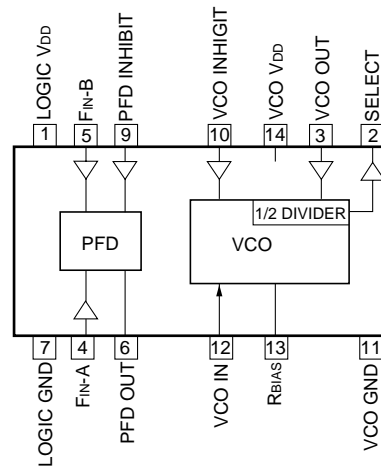
■ TLC2932IPW (SIGNAL ASSY: IC7703, IC7704)

PLL IC

● Pin Assignment



● Block Diagram



● Pin Function

Pin No.	Pin Name	I/O	Function
1	LOGIC VDD	—	Pin which supplies power voltage to the internal logic circuit. Should be completely separated from the VCO power voltage supply pin.
2	SELECT	O	VCO output frequency 1/2 divider select pin. By controlling this pin using external logic, the VCO output frequency can be frequency divided by 1/2.
3	VCO OUT	O	VCO output pin. Set to level "L" when inhibited.
4	FIN-A	I	2-input pin for detecting the edge difference between the reference frequency (REF-IN) and frequency from the external counter. Normally, the 1REF-IN is input to pin FIN-A while the divided frequency and doubled frequency from the external counter is input to pin FIN-B.
5	FIN-B	I	2-input pin for detecting the edge difference between the reference frequency (REF-IN) and frequency from the external counter. Normally, the 1REF-IN is input to pin FIN-A while the divided frequency and doubled frequency from the external counter is input to pin FIN-B.
6	PFD OUT	O	PFD (phase frequency detector) output pin. Can be fixed at high impedance.
7	LOGIC GND	—	Internal logic circuit ground pin.
8	NC	—	Internal unconnected pin.
9	PFD INHIBIT	I	PFD inhibit function control pin.
10	VCO INHIBIT	I	VCO inhibit function control pin.
11	VCO GND	—	VCO ground pin.
12	VCOIN	I	VCO control voltage input pin. Normally, PLL inputs the VCO oscillation control voltage from the LPF configured externally.
13	RBIAS	I	Bias resistance connection pin for setting the VCO oscillation frequency. Connects the bias resistor between this pin and the power line when supplying bias for oscillation operations of the internal VCO and for setting and adjusting the oscillation frequency.
14	VCO VDD	—	VCO power voltage supply pin. This should be completely separated from the power voltage pin of internal logic.

■ PD5499A (SIGNAL ASSY: IC7800)

CONTROL μ -COM

● Pin Assignment

NC	1	P70	VDD	64
NC	2	P71	HSYNC	63
NC	3	P36	VSYNC	62
NC	4	P35	P52	61
MREQ	5	INT 1	P53	60
NC	6	AD3	P54	59
PD	7	P60	P55	58
CLK	8	P61	P56	57
DATA	9	P62	P00	56
ZOOMRST	10	P63	P01	55
NC	11	P64	P02	54
NC	12	P65	P03	53
TRST	13	P66	P04	52
NC	14	P67	P05	51
HS	15	TIM 3	P06	50
VS	16	TIM2	P07	49
NC	17	P31	P10	48
NC	18	P30	P11	47
SRDY	19	SRDY 1	P12	46
MDATA	20	SIN 1	P13	45
MCLK	21	SCLK 1	P14	44
SDATA	22	SOUT 1	P15	43
SCL	23	SCL 2	P16	42
SDA	24	SDA 2	P17	41
TSCL	25	SCL 3	P20	40
TSDA	26	SDA 3	P21	39
CNVSS	27	CNVSS	P22	38
NC	28	∅	P23	37
RESET	29	RESET	P24	36
XIN	30	XIN	P25	35
XOUT	31	XOUT	P26	34
VSS	32	VSS	P27	33

● Pin Function

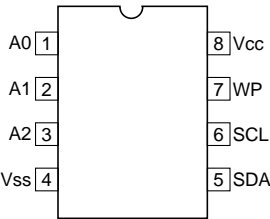
Pin No.	Pin Name	I/O	Function
1	NC	I	Unused
2	NC	I	Unused
3	NC	I	Unused
4	NC	I	Unused
5	MREQ	I	M-S serial main request input
6	NC	I	Unused
7	PD	O	T bus period output
8	CLK	O	T bus clock output
9	DATA	O	T bus clock output
10	ZOOMRST	O	2-screen zoom IC reset output
11	NC	I	Unused
12	NC	I	Unused
13	TRST	O	TVGP+ reset output
14	NC	I	Unused
15	HS	I	Video horizontal sync signal detection input
16	VS	I	Video vertical sync signal detection input
17	NC	I	Unused
18	NC	I	Unused
19	SRDY	O	M-S serial sub ready output
20	MDATA	I	M-S serial main data input
21	MCLK	I	M-S serial main clock input
22	SDATA	O	M-S serial sub data output
23	SCL	O	IIC bus clock output
24	SDA	I/O	IIC bus data input/output
25	TSCL	O	TVGP+ IIC bus clock output
26	TSDA	I/O	TVGP+ IIC bus data input/output
27	CNVSS	I	Processor mode switching input
28	NC	O	Timing signal output

PRO-700HD

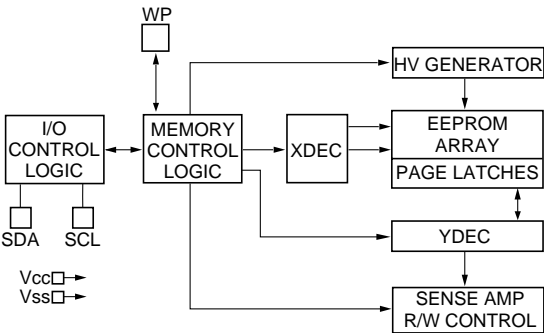
Pin No.	Pin Name	I/O	Function
29	RESET	I	Reset input
30	XIN	I	System clock input
31	XOUT	O	System clock output
32	VSS	I	Power supply input (GND)
33	TVD	O	TVGP+ vertical sync signal output
34	PASS	O	1-screen through switching output
35	S_SW	O	Sub composite /S switching output
36	M_SW	O	Main video/EPG switching output
37	M_MUTE	O	Main video deletion output
38	S_MUTE	O	Sub video deletion output
39	NC	O	Unused (Fixed at "L" output)
40	NC	O	Unused (Fixed at "L" output)
41	NC	O	Unused (Fixed at "L" output)
42	NC	O	Unused (Fixed at "L" output)
43	NC	O	Unused (Fixed at "L" output)
44	NC	O	Unused (Fixed at "L" output)
45	NC	O	Unused (Fixed at "L" output)
46	NC	O	Unused (Fixed at "L" output)
47	NC	O	Unused (Fixed at "L" output)
48	NC	O	Unused (Fixed at "L" output)
49	NC	O	Unused (Fixed at "L" output)
50	NC	O	Unused (Fixed at "L" output)
51	NC	O	Unused (Fixed at "L" output)
52	NC	O	Unused (Fixed at "L" output)
53	NC	O	Unused (Fixed at "L" output)
54	NC	O	Unused (Fixed at "L" output)
55	NC	O	Unused (Fixed at "L" output)
56	NC	O	Unused (Fixed at "L" output)
57	NC	O	Unused (Fixed at "L" output)
58	NC	O	Unused (Fixed at "L" output)
59	NC	O	Unused (Fixed at "L" output)
60	NC	O	Unused (Fixed at "L" output)
61	NC	O	Unused (Fixed at "L" output)
62	VD	I	TVGP+ VD1 signal input
63	NC	I	Unused (Fixed at "L" output)
64	VDD	I	Power input (+5V)

■ 24LC08B(I)SN (SIGNAL ASSY: IC7802)
8K EEPROM

● Pin Assignment



● Block Diagram

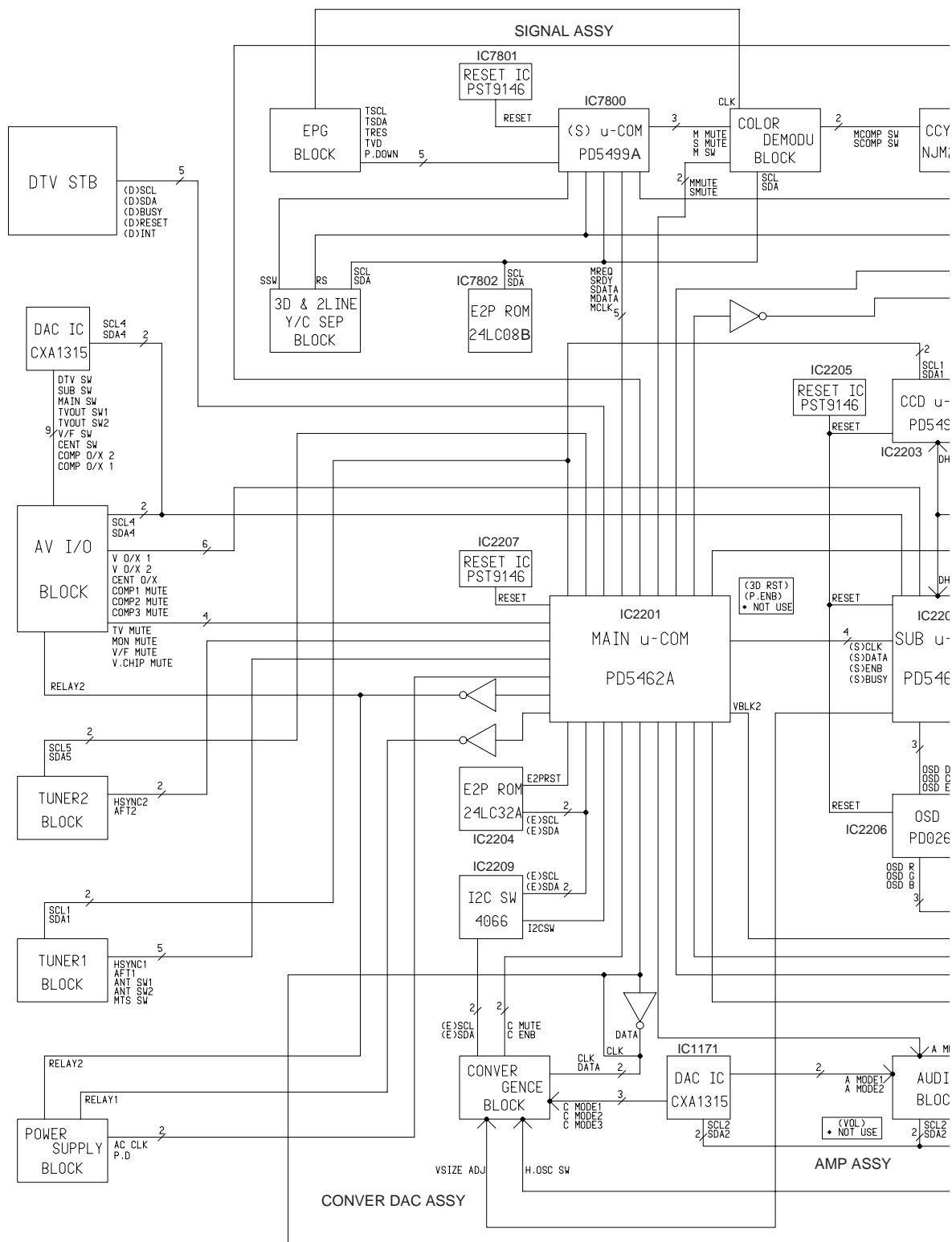


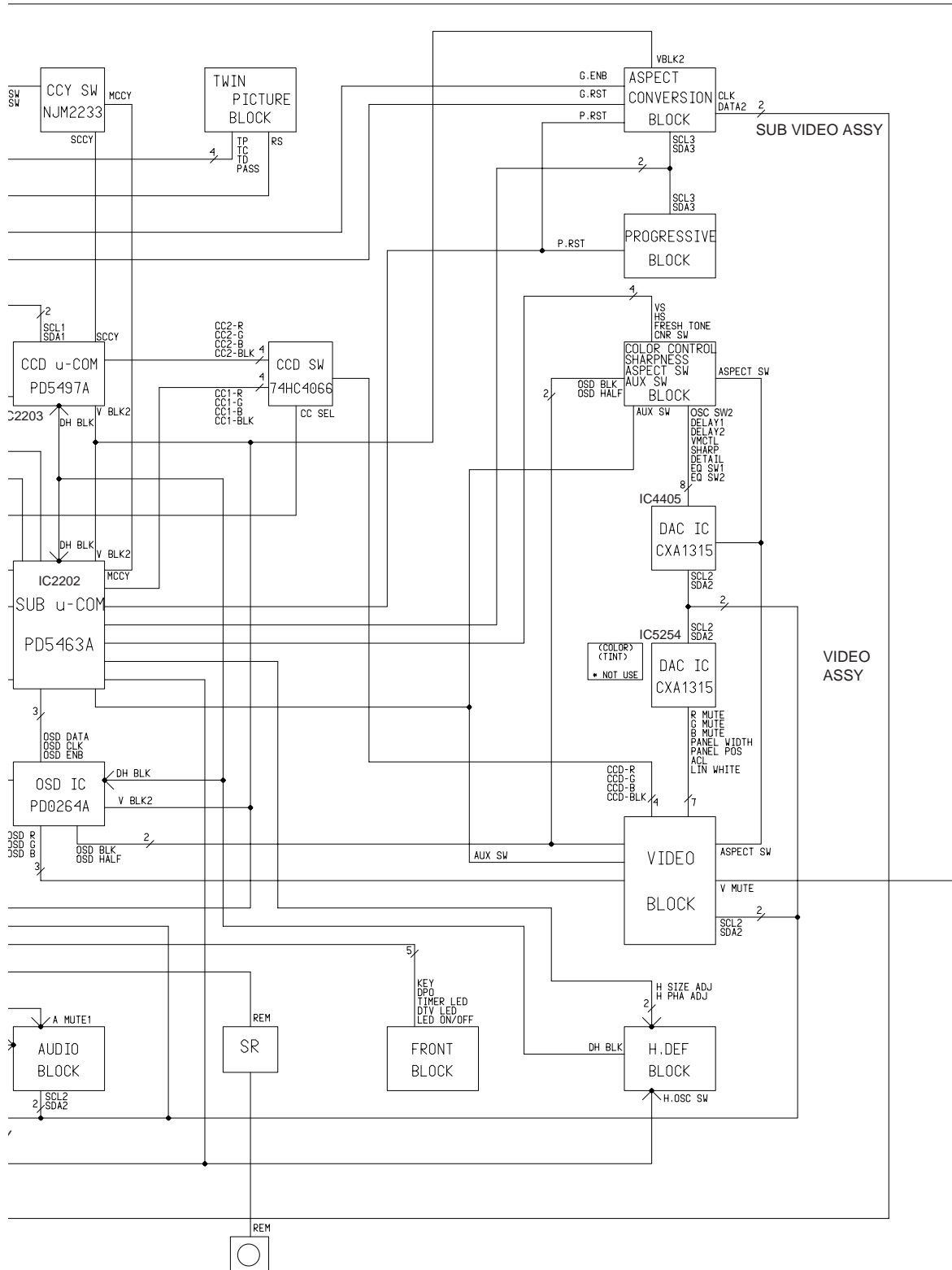
● Pin Function

Pin No.	Pin Name	I/O	Function
1	A0	I	No Internal Connection
2	A1	I	No Internal Connection
3	A2	I	No Internal Connection
4	Vss	—	Ground
5	SDA	I/O	Serial Address/Data I/O
6	SCL	I	Serial Clock
7	WP	I	Write Protect Input
8	Vcc	—	+4.5V to 5.5V Power Supply

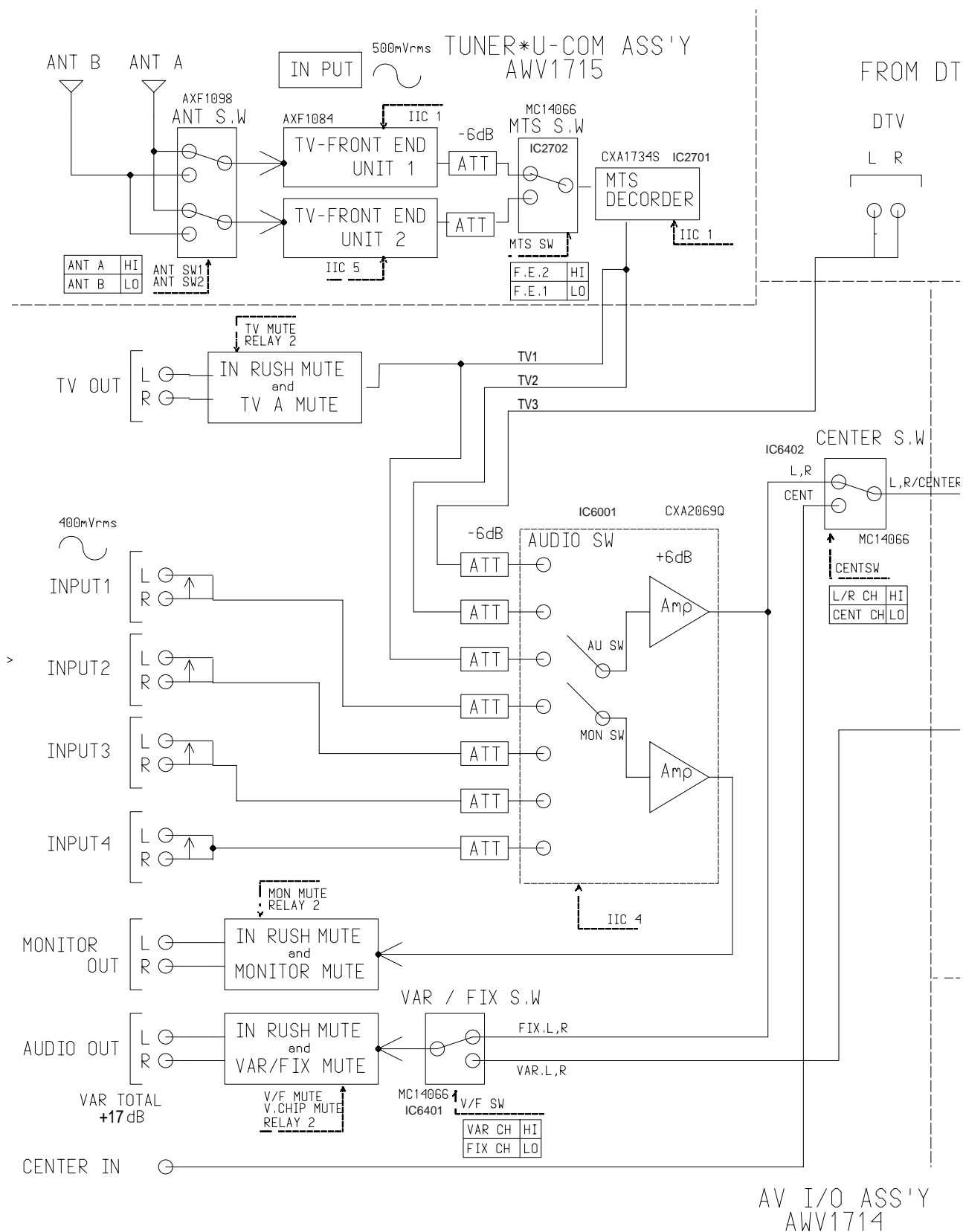
7.3 BLOCK DIAGRAMS

7.3.1 μ -COM BLOCK

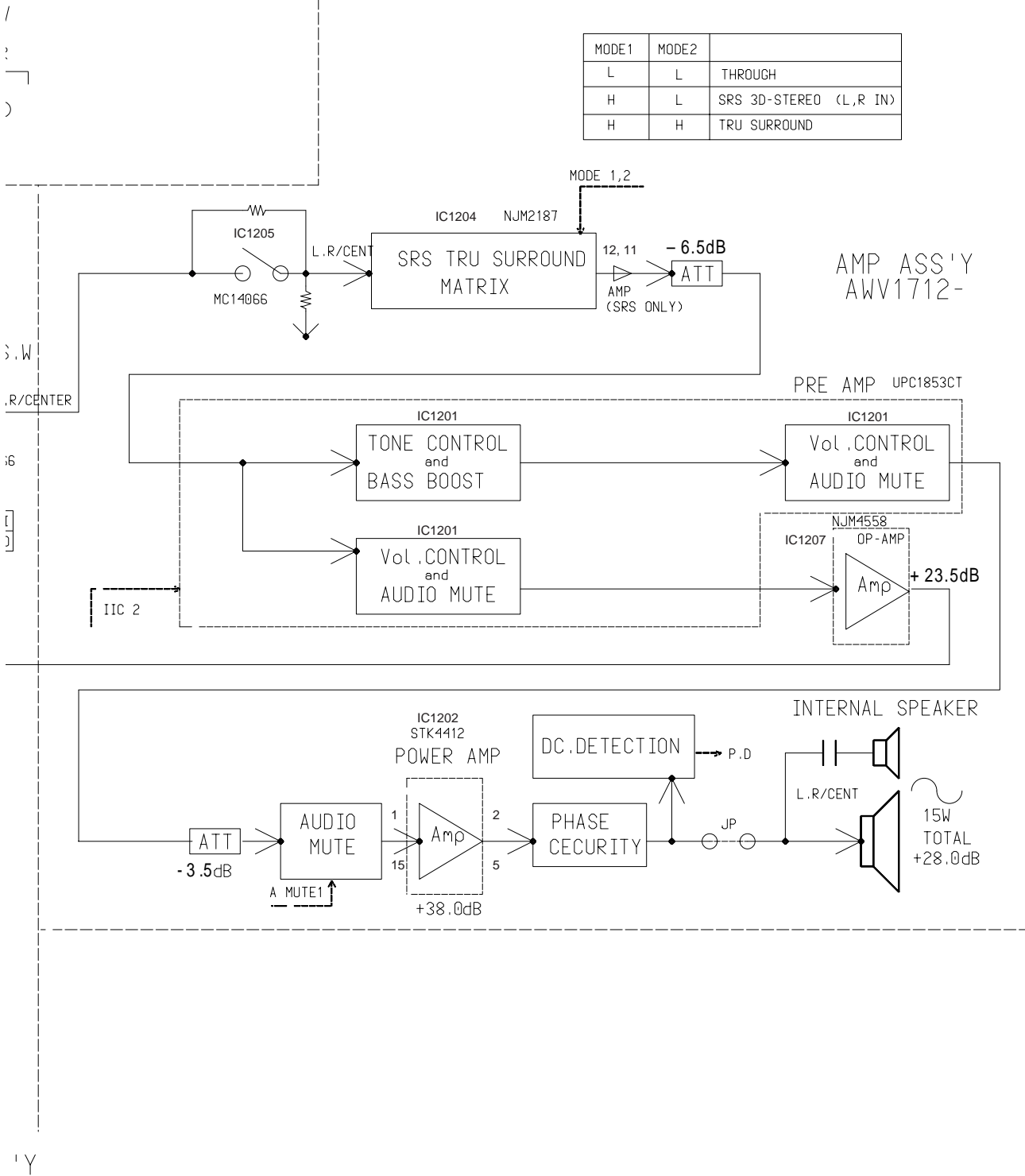




7.3.2 AUDIO BLOCK



IM DTV SET TOPBOX







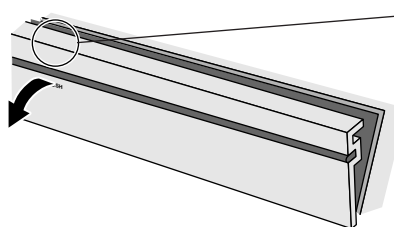
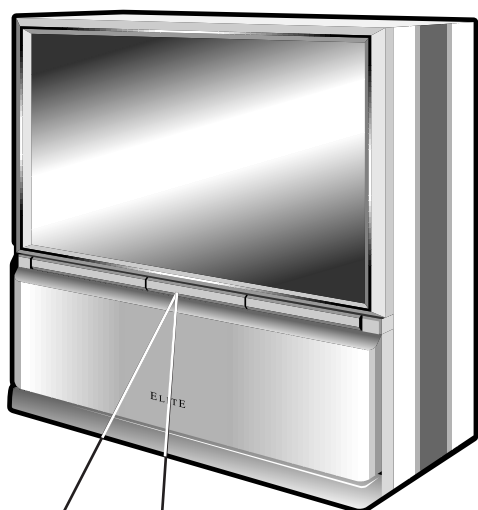
8. PANEL FACILITIES AND SPECIFICAITONS

8.1 PANEL FAICLITIES

A flip-down door conceals the control panel. Push gently and release, to open the door. To close the door, lift it back up into place.

NOTE:

If you accidentally pull the door, it may not shut properly. Push the door back in to shut it.



In some cases, the door may only open slightly when pushed. In such cases, open the door with your finger as shown in the figure at left.

① **POWER STANDBY/ON indicator**

② **DTV indicator**

Lights when receiving a digital television broadcast. If a digital tuner has been connected, the DTV indicator may still blink even when the power has been turned off. (This is not a defect.)

③ **DPO sensor**

Sensor to detect the room brightness.

④ **MAIN POWER switch**

Press once to turn on the main power (STANDBY mode). Press again to turn off the main power.

⑤ **POWER button (STANDBY/ON)**

Press once to turn on the Monitor. Press again to turn off the Monitor.

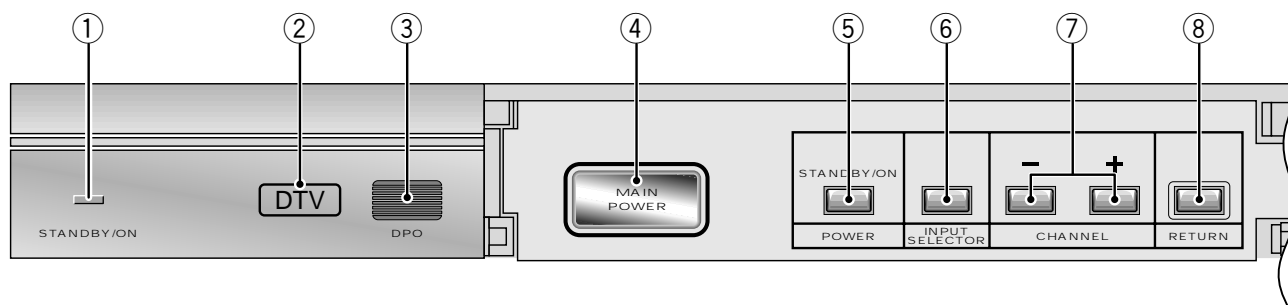
⑥ **INPUT SELECTOR button**

Press to select your program source. Each press of the INPUT SELECTOR changes the selection to the next source.



⑦ **CHANNEL buttons**

Press plus (+) or minus (-) to tune to a higher or lower channel. Only the preset channels can be tuned in using these buttons.



⑧ RETURN button

Press to set the Projection Monitor to its initial mode.

Initial mode

Input selector:	Set to TV.
TV channel:	Remains at the last channel set.
VOLUME:	Remains at the last setting.
MUTING:	OFF
PICTURE	
MODE:	STD
Parameters:	Set to 0.
3D Y/C LEVEL:	3
3D NR LEVEL:	3
CNR:	OFF
COLOR TEMP:	MID
FLESH TONE:	ON
SVM	HIGH
SOUND	
MTS:	MAIN
Parameters:	Set to 0.
SURROUND:	OFF
SCREEN	
AUTO SCREEN:	OFF
MODE:	NATURAL WIDE
V. POSITION:	Set to 0.
CC:	OFF
DPO:	OFF
SYSTEM IN/OUT	
SPEAKER:	NORMAL
AUDIO OUT:	FIXED
SYSTEM MODE:	OFF

- When this button is pressed while adjusting the outer point convergence, the outer point convergence returns to the initial mode.

⑨ VOLUME buttons

Press plus (+) button to increase the volume, press minus (–) button to decrease it.

⑩ INPUT 4 jacks

These inputs are for Video Movie and VCR. Use RCA-type pin plug cords (the same as those used in Hi-Fi systems) and S-VIDEO cords for connections. When the audio source to be connected is monaural, connect the source to the L-(MONO) jack.

CAUTION:

Do not press any operation button on the Projection Monitor or the remote control unit while recording. Signals from the MONITOR OUTPUT jacks may be temporarily interrupted when a button is pressed.

ATTENTION

The Projection Monitor Receiver will not function properly in the following cases.

- An electrical discharge in the CRT.
- Lightning storms.
- High static electricity environment.
- Poor voltage regulation in the power source.

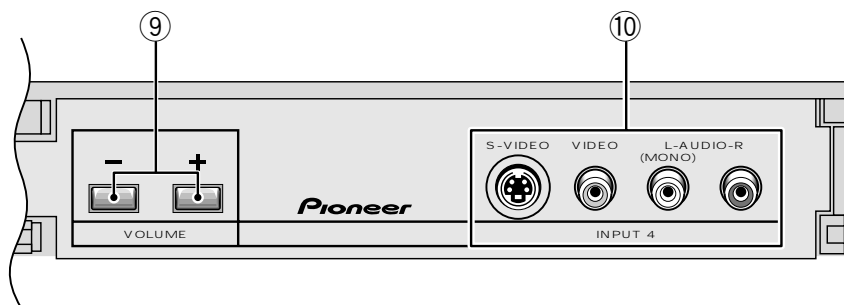
If the Projection Monitor does not operate properly, reset it as follows:

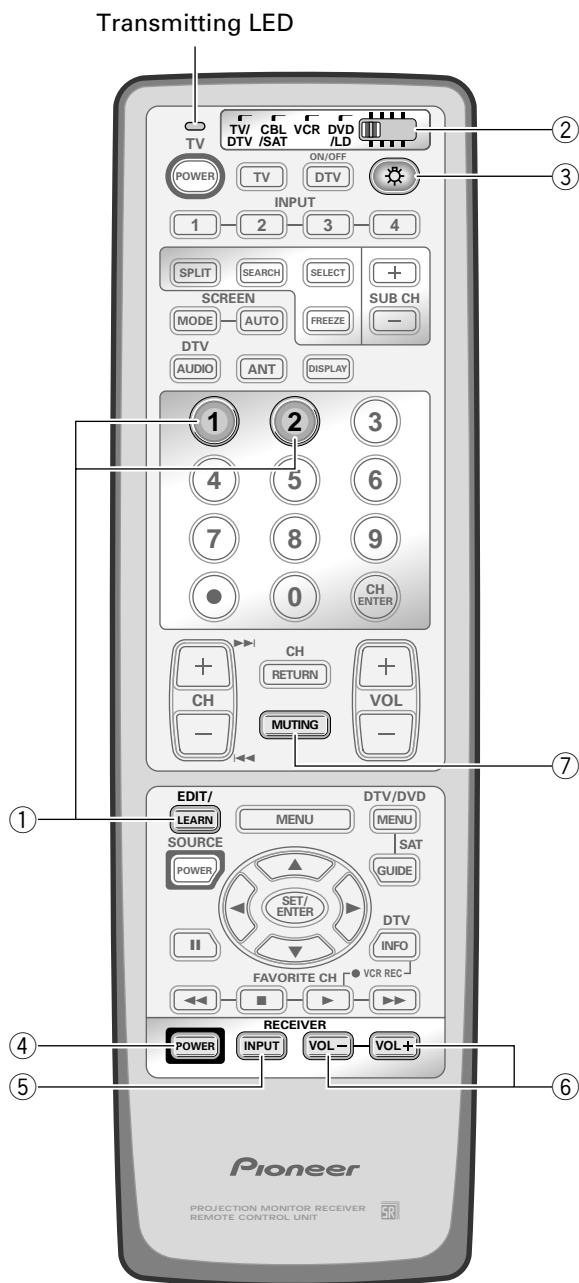
- Turn off the power of the unit with the ④ MAIN POWER switch.
- After approximately 1 minute, turn on the power with ④ MAIN POWER switch and ⑤ POWER button.

If the normal operation cannot be restored after the above treatment, immediately unplug the power cord and call your nearest PIONEER-authorized service center.

NOTE:

On rare occasions, an electrical discharge may occur inside the CRT. It makes a short, sharp pop and either no sound is produced or the volume level changes by itself. The SPLIT screen and SEARCH screen functions will be cancelled automatically if an electrical discharge occurs when this function is engaged.





REMOTE CONTROL UNIT SETTING BUTTONS

① EDIT/LEARN button

EDIT: When the EDIT/LEARN button is pressed at the same time as number button 1, the mode will change to preset code edit mode.

LEARN: When the EDIT/LEARN button is pressed at the same time as number button 2, the unit's capability to learn and store command codes from other remote control units will be activated.

② Mode switch

Use to switch the remote control unit modes.

③ Light button

When this button is pressed, all the buttons on the remote control unit will light. The lighting will turn off if no operations are performed within five seconds.

This button is used for performing operations in dark places.

RECEIVER CONTROL BUTTONS

When a Pioneer receiver is connected to the Monitor, the receiver can be operated using buttons ④ to ⑥.

When another company's receiver is connected to the Monitor, have the signals for ④ to ⑥ learned.

④ RECEIVER POWER button (STANDBY/ON)

Turns receiver power on and off.

⑤ RECEIVER INPUT button

Selects the input source connected to the receiver.

⑥ RECEIVER VOL (volume) +, - buttons

Adjusts receiver volume level.

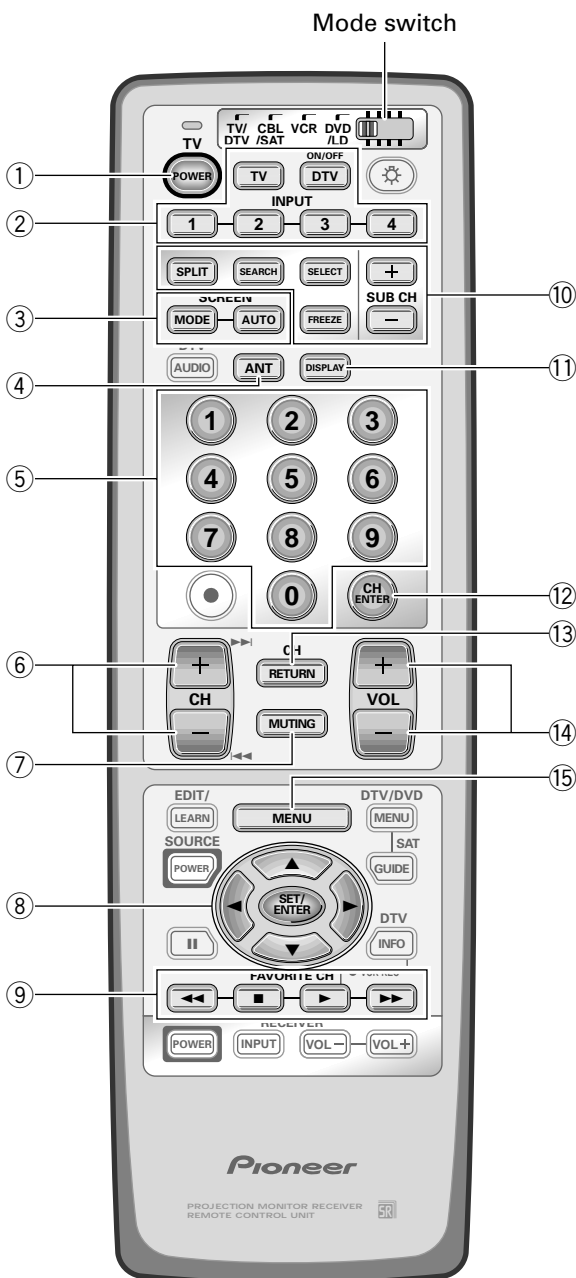
Press the plus button (+) to increase the volume and the minus button (-) to decrease it.

⑦ (RECEIVER) MUTING button

Allows the receiver's mute signal to be learned.

This button is used when the mode switch has been set to something other than TV/DTV.

MONITOR (TV) CONTROL BUTTONS



Set the mode switch to TV/DTV.

① TV POWER button (STANDBY/ON)

Turns the power of the monitor on and off.

② Input Selector buttons (TV, DTV*, INPUT 1 to INPUT 4)

Press the button to select the source you wish to watch. The screen will display your selection.

③ SCREEN MODE, AUTO SCREEN buttons

MODE: Press to select the SCREEN MODE.

AUTO: Press to turn the AUTO SCREEN function on and off.

④ ANT (antenna selector) button

Press to switch between ANTENNA-A and ANTENNA-B when you wish to watch TV.

⑤ Direct channel selection buttons

Press the button (or buttons) that corresponds to the channel that you wish to watch.

⑥ CH (channel) +, - button

Press plus (+) or minus (-) to tune in a higher or lower channel. Only the preset channels can be tuned in using these buttons.

⑦ MUTING button

Press to temporarily turn off the sound. Press again to return to the previous volume level.

⑧ Select/Adjust/Set buttons (SET/ENTER, ◀, ▶, ▲, ▼)

◀, ▶, ▲, ▼: Press to select or adjust items on the menu screen.

SET/ENTER: Press to activate the selected function.

⑨ FAVORITE CH buttons

These buttons call up the channels that have been assigned to them.

⑩ SPLIT/SEARCH screen buttons

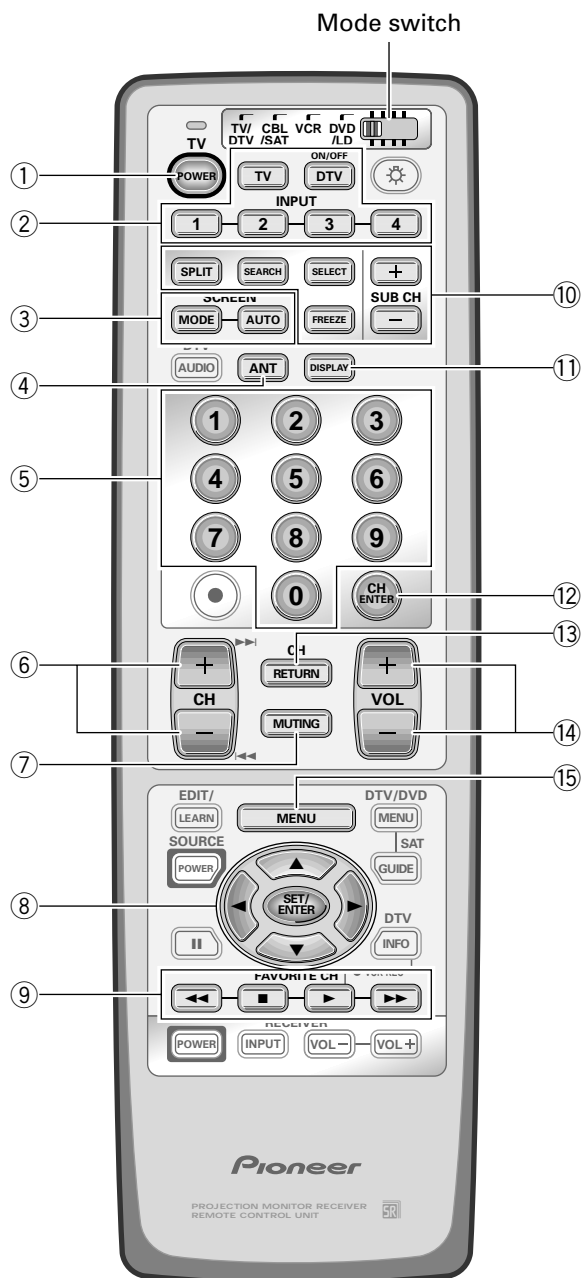
SPLIT: Press to turn the SPLIT screen function on and off.

SEARCH: Press to select the SEARCH screen mode.

SELECT: Selects the screen for switching the channel or input source.*2

FREEZE: When this button is pressed with the regular screen, the screen will change to the SPLIT screen and the picture at the time the button was pressed will become the sub-picture, displayed as a frozen image.

SUB CH +, -: Used to switch the channel for the sub-picture of the SPLIT screen.



⑪ **DISPLAY** button

Press to display the input source, channel, setting and other screen indicators for a few seconds.

⑫ CH ENTER button

Fix the selected channel with the direct channel selection buttons.

⑬ **CH RETURN** (channel return) button

Press to switch between the current channel and the channel you were watching immediately before.

⑭ **VOL (volume) +, – buttons**

Press plus (+) button to increase the volume, press minus (-) button to decrease it.

Volume level will appear on the screen as numbers and a bar graph. The maximum volume level is "63".

The display will disappear from the screen after 2 seconds.

⑮ **MENU button***3

Press to turn on the menu screen for use in function selection.
Press again to return to normal TV screen.

*1 For viewing DTV broadcasts, the SH-D07 digital tuner (sold separately) is necessary.

*2 With the 9-SEARCH screen, the search picture's input source and channel cannot be switched.

*3 When the MENU button is pressed, the buttons indicated by "⑧" (SET/ENTER, ◀, ▶, ▲ and ▼) will light for a few seconds, indicating that the remote control is ready for making menu settings.

When menu settings are made with the remote control in this condition, all of the buttons indicated by “⑧” will blink while buttons are pressed.

■ SPECIFICATIONS

Display and amplifier section

Reception system American TV standard NTSC system
 Screen size 64"
 CRT 7" High focus CRT x 3
 Brightness (White peak) 400 Foot-Lambert
 [White window signal input contrast Max.]
 without protective screen
 Horizontal resolution More than 1400 lines
 [Input digital test pattern (1400 lines resolution)]
 Input terminals 4 video inputs
 4 S-VIDEO input jacks (Y/C separate INPUT)
 2 COMPONENT VIDEO INPUT jacks (Y, C_B/P_B, C_R/P_R)
 4 audio inputs
 CENTER INPUT jack
 Output terminals MONITOR/TV/AUDIO
 Input terminal signal ratings
 Input signal
 Video signal:
 Composite and S-VIDEO(Y): 1.0 Vp-p (75 ohms load)
 COMPONENT (Y): 1.0 Vp-p (75 ohms load)
 (C_B/P_B, C_R/P_R): 0.7 Vp-p (75 ohms load)
 Input impedance Video input: 75 ohms
 Audio input (including CENTER): 22 kilo-ohms
 or more
 Input signal polarity (Video) Synchronized negative
 Output terminal signal ratings
 Output signal Video signal: 1 Vp-p (75 ohms load)
 Audio signal: 500 mV rms (100 % modulation)
 Output impedance Video output: 75 ohms
 Audio output: Less than 1 kilo-ohms
 Effective output
 Front both channels driven 15 W + 15 W
 (THD. 1 % 1 kHz, 8 ohms)
 Built-in speaker system 16 cm (6-5/16 in) full range x 2
 6.6 cm (2-9/16 in) tweeter x 2

Tuner section

Circuit type Video signal detection:
 PLL full synchronous detection
 PLL digital synthesizer system
 Audio multiplex: BTSC system
 Reception channels . VHF; CH2~CH13, UHF; CH14~CH69
 CATV (STANDARD, IRC or HRC)
 CATV 1-125 CH
 Antenna terminals
 Antenna terminal, 75 ohms UNBAL,
 F-type connector (VHF, UHF MIXED)

Electrical section, miscellaneous

Power requirements 120 V AC, 60 Hz
 Power consumption
 At time of shipment 343 W, 650 VA (CSA)
 With digital tuner installed 400 W, 730 VA (CSA)
 External dimensions 1510 (W) x 709 (D) x 1425 (H) mm
 59-7/16 (W) x 27-28/32 (D) x 56-1/8 (H) inch
 Weight of main unit 167 kg (368 lb 4 oz)

Wireless remote control unit

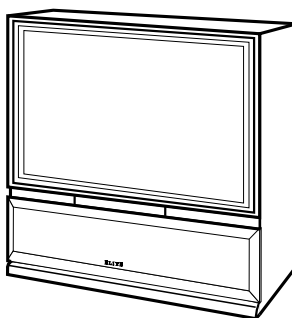
Operation system Infrared remote control system
 Power source Two DURACELL "AA" MN1500 1.5 V
 ALKALINE dry cell batteries
 Dimensions 66 (W) x 24.6 (H) x 226.5 (D) mm
 2-19/32 (W) x 31/32 (H) x 8-29/32 (D) inch
 Weight 170 g (4 oz) (without batteries)

Accessories

Operating instructions 1
 Warranty card 1
 Remote control unit 1
 DURACELL "AA" MN1500 1.5V
 Alkaline dry cell batteries 2
 Protective screen 1
 Panel frame 2
 Side frame cover 2
 Frame cover 2
 Panel frame attaching screw 10

Service Manual

Pioneer



ORDER NO.
ARP3013

PROJECTION MONITOR RECEIVER

PRO-700HD

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	PRO-700HD		
KUXC/CA	○	AC120V	

- The PRO-700HD service manual is composed of ORDER NO. ARP3013 and ORDER NO. ARP3024. Use these two manuals as one set. For other details, refer to the separate manual (ORDER NO. ARP3024).

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ORDER NO.
ARP3013

ORDER NO.
ARP3024

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.



WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & safety code section 25249.6—Proposition 65


NOTES

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

1.1 SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.

The following precautions should be observed:

1. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled.
Keep picture tube away from the body while handling.
2. When service is required, even though the PROJECTION MONITOR RECEIVER an isolation transformer should be inserted between power line and the set in safety before any service is performed.
3. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
4. When service is required, observe the original lead dress.
Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
5. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.
Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.

6. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacturer has become defective, or inadvertently defeated during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

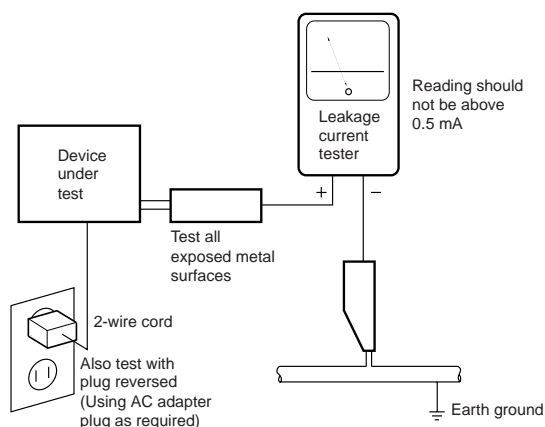
Leakage Current Cold Check

With the AC plug removed from 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of 0.3M Ω and a maximum resistor reading of 5M Ω . Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a 120V AC 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

High Voltage

This set is provided with a X-ray protection for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this X-ray protection may correctly be operated.

Serviceman Warning

In the status of the black picture (video muting is being applied) when no signal is input, high voltage of this set during operation is less than 30.5kV. In case any component having some relation to the high voltage is replaced, confirm that the high voltage is lower than 30.5kV in the status of the black picture when no signal is input.

To measure H.V. use a high impedance H.V. meter.

Connect (-) to earth and (+) to the FBT anode cable connector.

(Refer to page 214)

X-radiation

TUBE: The primary source of X-radiation in this set is the picture tube.

For continued X-radiation protection, the replacement tube must be the same type as the original, PIONEER approved type.

The picture tube (the CRT assy R, G, B) use in this set holds complete guarantee against X-ray radiation when the X-ray is sealed (See page 4). Accordingly, when the current in flowing to the picture tube (CRT assy R, G, B) be sure to perform it by putting the tube into X-ray sealed applied state. Avoid absolutely to flow the current to the picture tube (CRT assy R, G, B) itself. Moreover, when the voltage of the high voltage circuit becomes abnormally a little higher, the picture tube radiates X-rays. Accordingly, when servicing the high voltage circuit be sure to replace as an assembly with the DEFLECTION SERVICE assy in the manner in which has been adjusted to perform normal operation.

1.2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

1.3 CHARGED SECTION, HIGH VOLTAGE GENERATING POINT AND X-RAY PROTECTION

■ Charged section

The circuit in which the commercial AC power is used as it is without passing through the power supply transformer. If the charged section is touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. In this case, be sure to connect the set via an insulated transformer and supply the current.

■ Charged section (Power supply primary side)

1. The primary side of the AC IN assy
2. AC power cord
3. The primary side of the POWER SUPPLY assy
4. AC power cord for DTV STB

- : Part is the charged section.
 ■ : Part is the high voltage generating points other than the charged section.

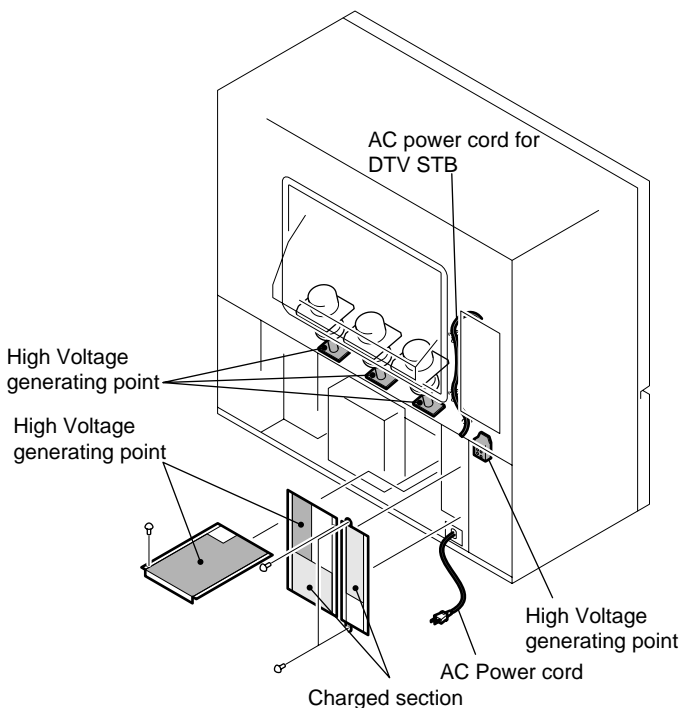


Fig. 1 Charged section and high voltage generating point

■ High voltage generating point

The place where voltage is 100V is generated.

1. Charged section
 - DEFLECTION assy (including FBT) (30.5kV, 1.2kV, 210V, 135V)
2. POWER SUPPLY assy (135V)
3. R. CRT DRIVE assy (10.5kV, 210V)
4. G. CRT DRIVE assy (10.5kV, 210V)
5. B. CRT DRIVE assy (10.5kV, 210V)
6. CRT assy R (CRT service assy R) (30.5kV)
7. CRT assy G (CRT service assy G) (30.5kV)
8. CRT assy B (CRT service assy B) (30.5kV)
9. Focus variable resistor (VR1) (10.5kV)
10. Deflection yokes (L1, L2 and L3) Approx. (1100V at peak)

■ X-ray protection

- Regarding the parts which are relative to radiation of X-rays (There is the danger to radiate X-ray from the individual CRT assy R, G, B), there are notifications of caution in the individual schematic diagrams. Be sure to read them for safety's sake.
- The component parts for X-ray protection are as follows :
 When the current flows to the CRT assy R, G, B, be sure to perform it with these parts being attached. Protection from the X-ray radiation is maintained in the state in which these parts have been installed to the CRT assy. R, G, B. Accordingly, never supply current only to the CRT assy R, G, B.
 Moreover, the anode voltage of the CRT assy R, G, B should always be kept not higher than the predetermined value (in the minimum brightness and picture state when non signal input is less than 30.5kV). Be sure to drive the CRT assy R, G, B by using a completely functional DEFLECTION assy which have been adjusted completely in the combined state. (When the voltage abnormally becomes high, the X-ray protection circuit will operate.)

1. CRT assy R, G, B (Do not dismantle CRT assemblies under any circumstances)
2. Each Lens assy

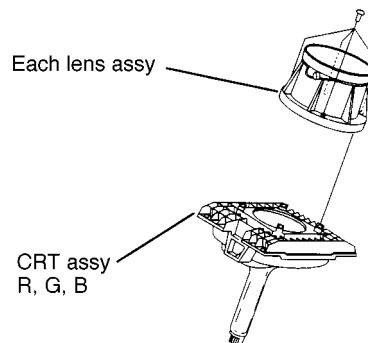


Fig. 2 Component parts for X-ray protection

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

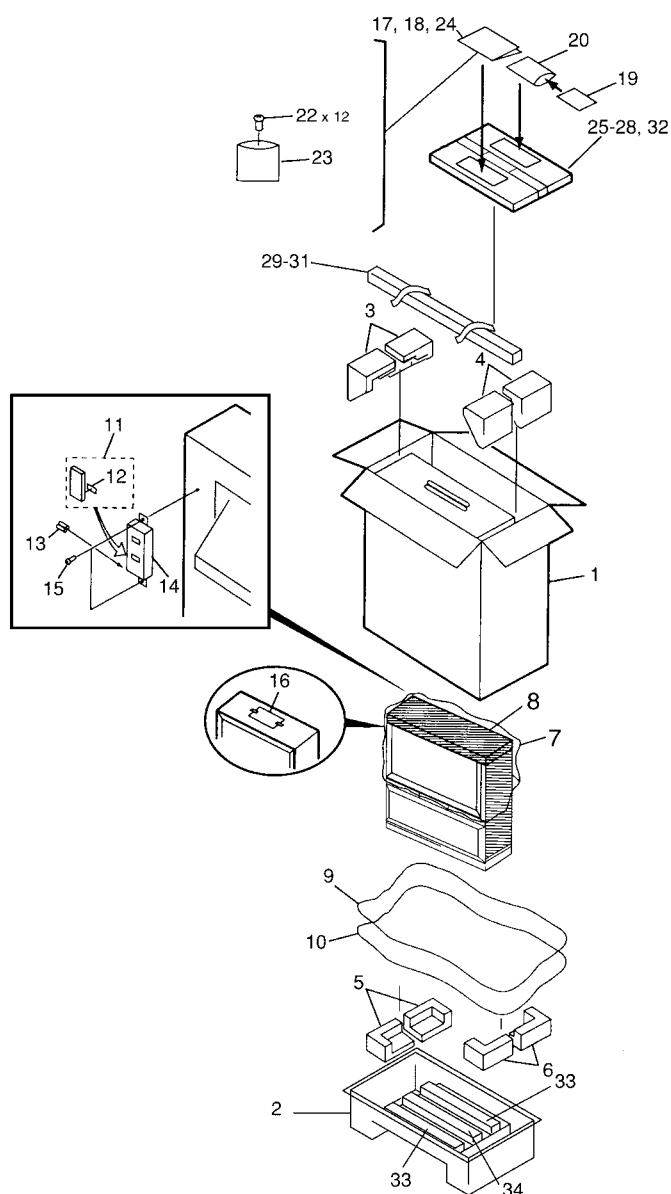
●The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

●Parts marked by ☆ are important parts which relate in X-rays radiation.

If any of these parts need to be replaced, always replace with specified parts.

●Screws adjacent to ▼ mark on the product are used for disassembly.

2.1 PACKING

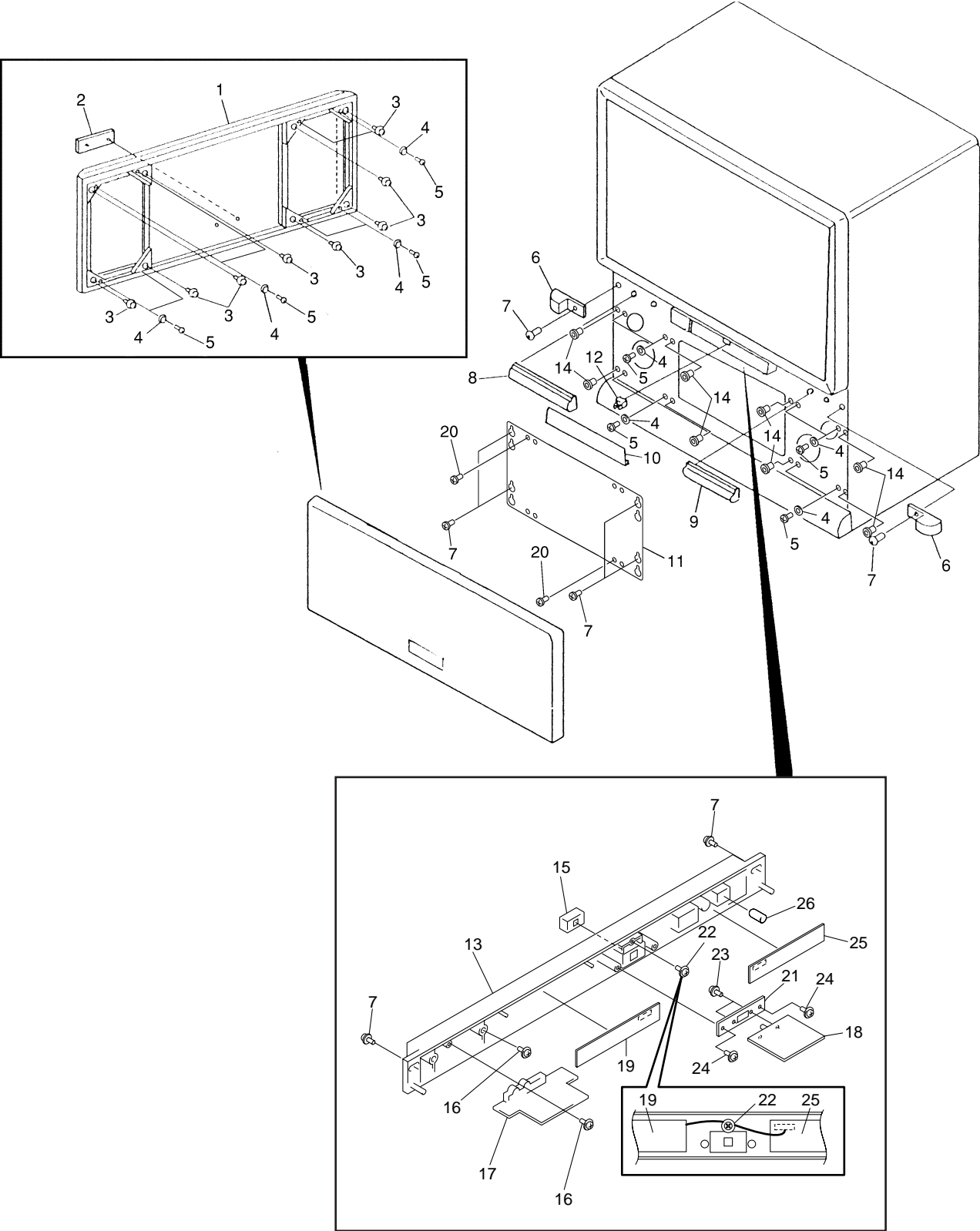


• PACKING PARTS LIST

Mark	No.	Description	Part No.
	1	Upper Carton 64W	AHD2994
	2	Under Carton 64W	AHD2995
	3	Upper Pad L	AHA2222
	4	Upper Pad R	AHA2223
	5	Under Pad L	AHA2224
	6	Under Pad R	AHA2225
NSP	7	Vinyl Sheet 64W Upper	AHG1288
NSP	8	Packing Sheet 60	AHG1230
NSP	9	Packing Sheet 64 Under	AHG1290
	10	Vinyl Sheet 64W Under	AHG1289
	11	Remote Control Unit (CU-SD105)	AXD1438
	12	Battery Cover	AZN2401
NSP	13	Alkaline Dry Cell Battery (LR6,AA)	AEX1018
	14	CU Packing Case	AHC1032
	15	Special Screw	ABA1239
	16	CONV. Attention Card	ARM1151
	17	Operating Instructions (English)	ARB1519
NSP	18	Caution Card	ARM1057
NSP	19	Warranty Card EL	ARY1026
NSP	20	Poly Bag	AHG1285
	21	.....
	22	Special Screw (Panel Frame Attaching Screw)	ABA1226
NSP	23	Wrapper Bag	AHG1076
NSP	24	Literature Bag	AHG1222
	25	Panel Case 64W	AHB1202
NSP	26	Vinyl Sheet 64W (for Panel)	AHG1286
	27	Protective Screen	AAK2729
	28	Acrylic Caution Card	ARH1160
	29	Frame Cover H	AAP1593
	30	Frame Cover V	AAP1594
	31	Panel Frame H	AND1163
	32	Panel Frame V	AND1164
NSP	33	Under Cushion A	AHA2228
NSP	34	Under Cushion B	AHA2229

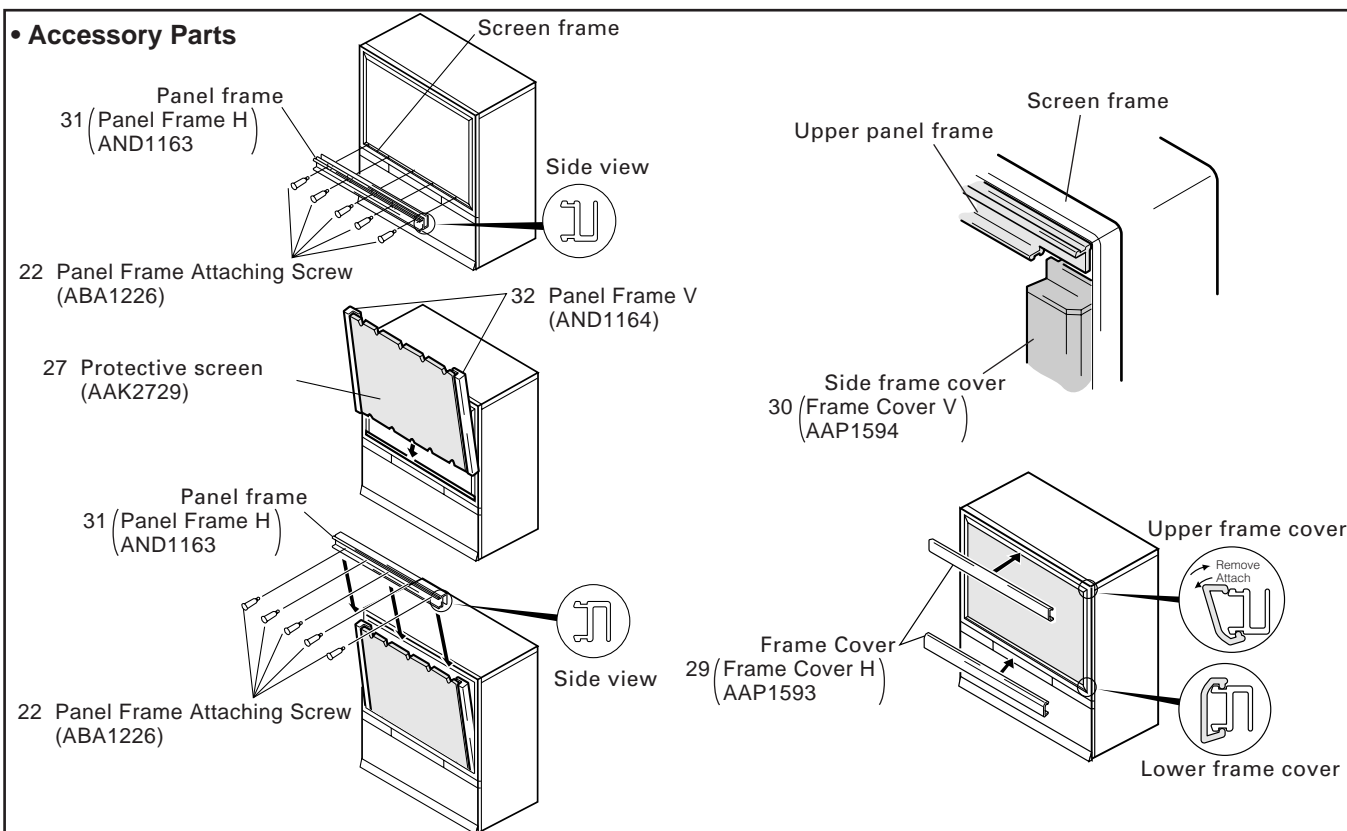
Note : As for accessory parts of part No. 22, 27 and 29 to 32, refer to page 7.

2.2 FRONT VIEW (1/2)

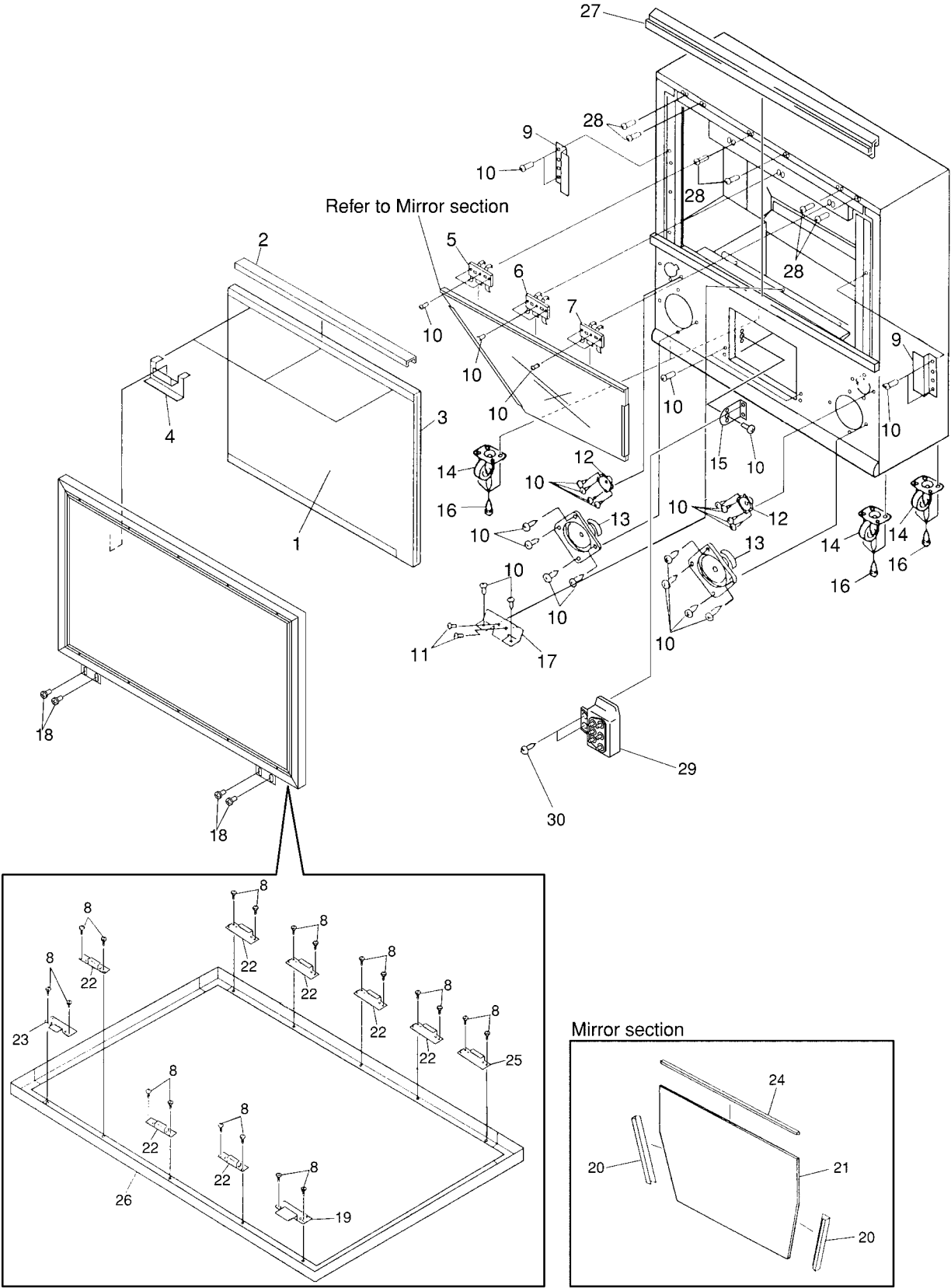


(1) FRONT VIEW (1/2) PARTS LIST

Mark	No.	Description	Part No.
NSP	1	Grille 64	AMM2936
	2	Badge	AAM1081
	3	Catcher A	ANZ-241
	4	Magic Tape	AEC1394
	5	Screw	ABA1271
	6	Side Cover	AMR3107
	7	Special Screw	ABA1240
	8	Side Panel Assy L (64W)	AMB2627
	9	Side Panel Assy R (64W)	AMB2635
	10	Door Assy	AAN1444
	11	Blind Plate	AMM2933
	12	Cather F2M	AEC1609
	13	Front Panel Assy	AMB2625
	14	Catch B	ANZ-242
	15	Power Knob	AAD4102
NSP	16	Screw	ABZ40P080FZK
	17	FRONT INPUT Assy	AWZ6339
	18	POWER SW Assy	AWZ6341
	19	FRONT CONTROL Assy	AWZ6337
	20	Screw	ABA1239
	21	Switch Holder	ANG2313
	22	Screw	ABA1269
	23	Screw	AMZ30P060FZK
	24	Screw	APZ30P080FZK
	25	LED DPO Assy	AWZ6338
	26	LED Lens	AAK2730

• Accessory Parts

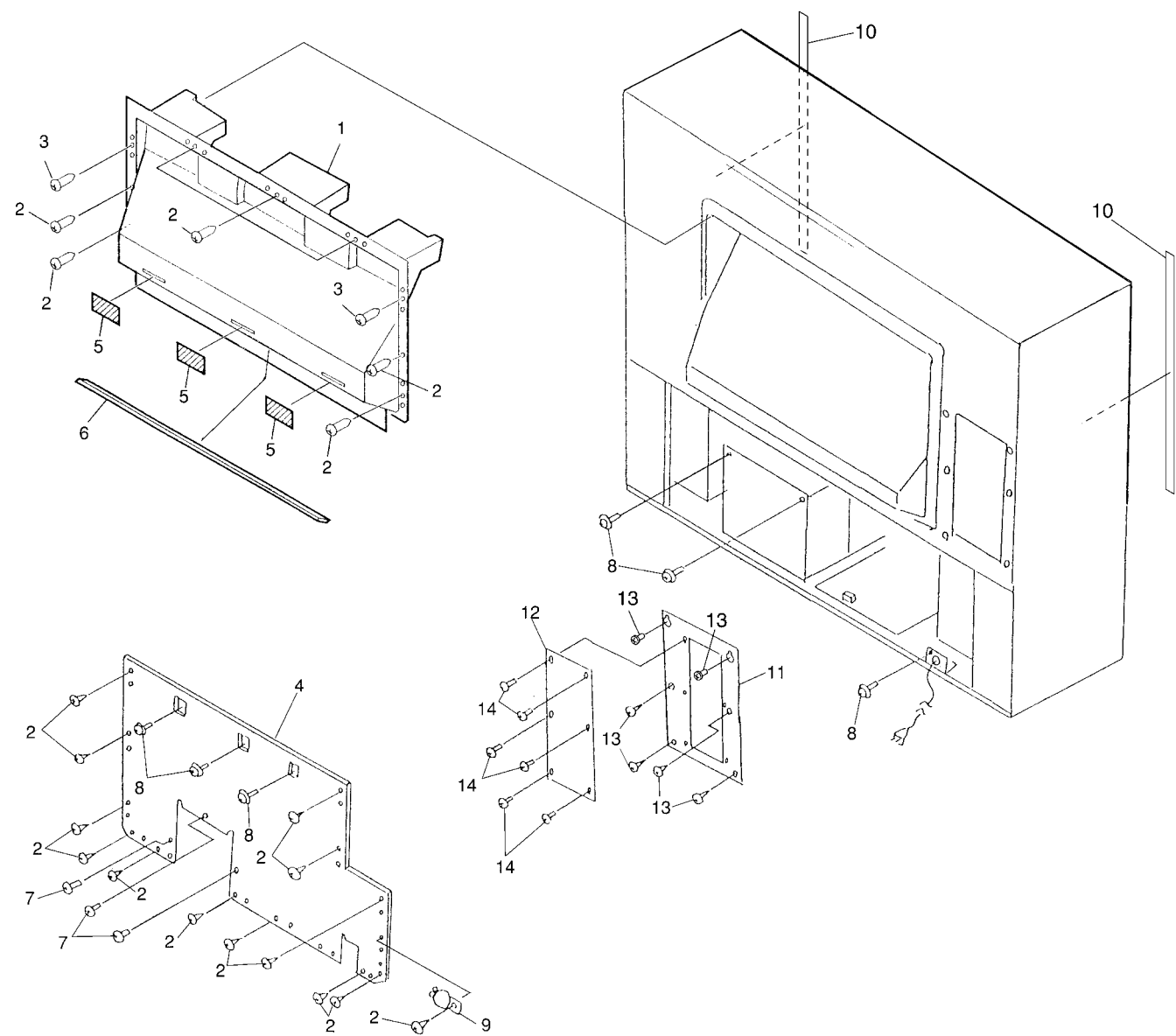
2.3 FRONT VIEW (2/2)



(1) FRONT VIEW (2/2) PARTS LIST

Mark	No.	Description	Part No.
	1	Lenticular Sheet	AMR3115
	2	Screen Holder Top 64	ANG2312
	3	Fresnel 64W	AMR3116
NSP	4	Upper Cabinet Metal	ANG2000
NSP	5	Mirror Upper Stay L	ANG2004
NSP	6	Mirror Upper Stay C	ANG2006
NSP	7	Mirror Upper Stay R	ANG2005
NSP	8	Screw	BYC35P160FMC
NSP	9	Screen Side Fitting	ANG1993
	10	Special Screw	ABA1240
	11	Screw	ACZ40P080FMC
	12	Speaker 66 (Tweeter)	D66AP45-56L
	13	Cone Speaker	APV1048
	14	Caster	AMR2547
NSP	15	VR Holder	ANG1956
	16	Special Screw	SBA-140
NSP	17	CRT Front Holder	ANG2118
	18	Screw M5	ABA1189
NSP	19	Under Screen Metal B	ANG2009
	20	Mirror Frame V 64W	ANG2315
	21	Mirror 64	AMR3113
NSP	22	Upper Screen Metal B	ANG2002
NSP	23	Under Screen Metal A	ANG2003
	24	Mirror Frame H 64 W	ANG2314
NSP	25	Upper Screen Metal A	ANG2001
	26	Screen Frame Assy 64W	AAP1592
	27	Screen Holder Low 64W	AAP1601
	28	Screw	BYC35P160FZK
△	29	Focus VR (VR1)	ACX1096
	30	Screw	BBZ30P080FZK

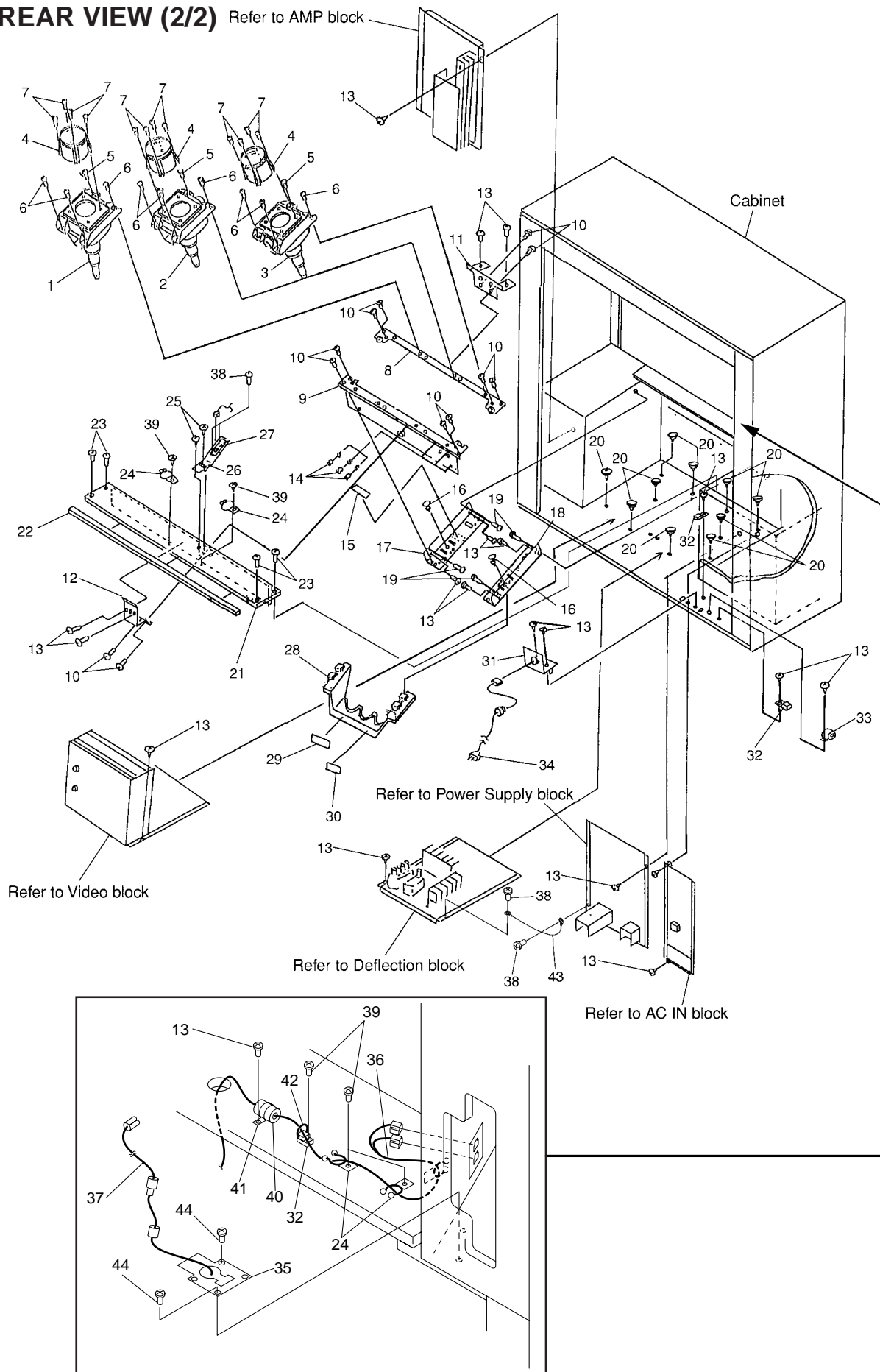
2.4 REAR VIEW (1/2)



(1) REAR VIEW (1/2) PARTS LIST

Mark	No.	Description	Part No.
	1	Mirror Case 51	AME2296
	2	Screw	ABA1240
	3	Screw	PYC40T140FZB
	4	Rear Cover	AMM2929
	5	Blind Sheet	AEC1622
	6	Mirror Case Coshion	AEC1627
	7	Screw	ABZ30P100FZK
	8	Screw	ABA1269
NSP	9	Cabinet Wire Holder	AEC1263
	10	Screen Cushion 64	AEC1778
	11	Rear Cover (DTV) Assy	ANE1577
	12	Rear Cover Sheet	AMR3135
	13	Screw	PMB40P160FZB
	14	Screw	BCZ30P080FZK
	15		

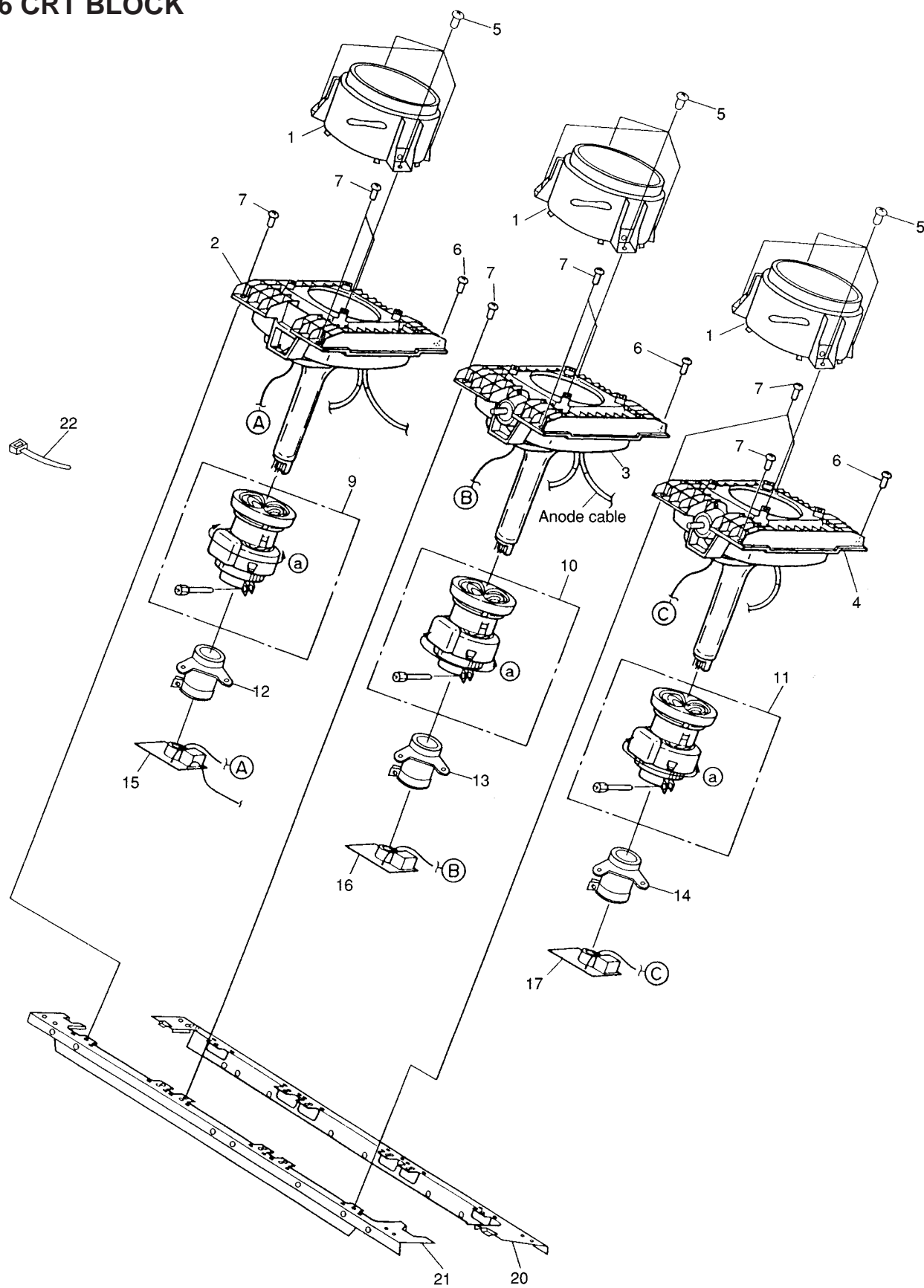
2.5 REAR VIEW (2/2) Refer to AMP block



(1) REAR VIEW (2/2) PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
☆	1	CRT Service Assy 64B	AWY1415	OTHERS			
☆	2	CRT Service Assy G	AWY1413			1P Lead Wire (J3)	ADX2231
☆	3	CRT Service Assy 64R	AWY1414			1P Lead Wire (J4)	ADX2232
☆	4	Lens Assy	AMR3121			1P Lead Wire (J5)	ADX2233
	5	Screw	FBT40P120FZK			1P Lead Wire (J6)	ADX2289
	6	Screw	ABA1168			1P Lead Wire (J7)	ADX2290
	7	Screw	AMZ40P080FZK			1P Lead Wire (J8)	ADX2291
NSP	8	CRT Front Frame	ANA1541			4P Housing Wire (J2)	ADX2484
NSP	9	CRT Rear Frame	ANA1542			Wire Harness A (J10)	ADX2485
	10	Screw	ACZ40P080FMC			Wire Harness B (J11)	ADX2487
NSP	11	CRT Front Holder	ANG2118				
NSP	12	CRT Rear Holder	ANG2119				
	13	Screw	ABA1240				
	14	Cord Holder	AEC1257				
NSP	15	Tube Label	AAX2497				
	16	Rivet	AEC-441				
NSP	17	CRT Stand Holder R	ANA1497				
NSP	18	CRT Stand Holder L	ANA1496				
	19	Screw	PMB50P250FZB				
	20	Special Screw	ABA1121				
NSP	21	Back Cover Panel	AMM2939				
	22	Back Cover Cushion	AEC1779				
	23	Screw	ABA1241				
NSP	24	Cabinet Wire Holder	AEC1263				
	25	Screw	ABA1210				
NSP	26	Fixing Metal	ANG1958				
	27	SR Assy	AWZ6340				
NSP	28	Tray	AMR2563				
NSP	29	Solder Warning Label	AAX2672				
NSP	30	Warning Label (KC)	AAX1797				
NSP	31	AC Cord Holder A	ANG2307				
NSP	32	Bind Holder	AEC1785				
	33	Ferrite Core	ATX1033				
△	34	AC Power Cord	ADG1180				
NSP	35	AC Cord Holder B	ANG2311				
	36	Wire Harness C (J14)	ADX2491				
△	37	AC Power Cord B	ADG1181				
	38	Screw	BBZ30P080FZK				
	39	Screw	ABA1271				
	40	Ferrite Core	ATX1031				
NSP	41	Nylon Clamp 18N	AEC1789				
	42	Nylon Binder	AEC-093				
	43	1P Lead Wire (J1)	ADX2505				
	44	Screw	PMB40P250FZB				

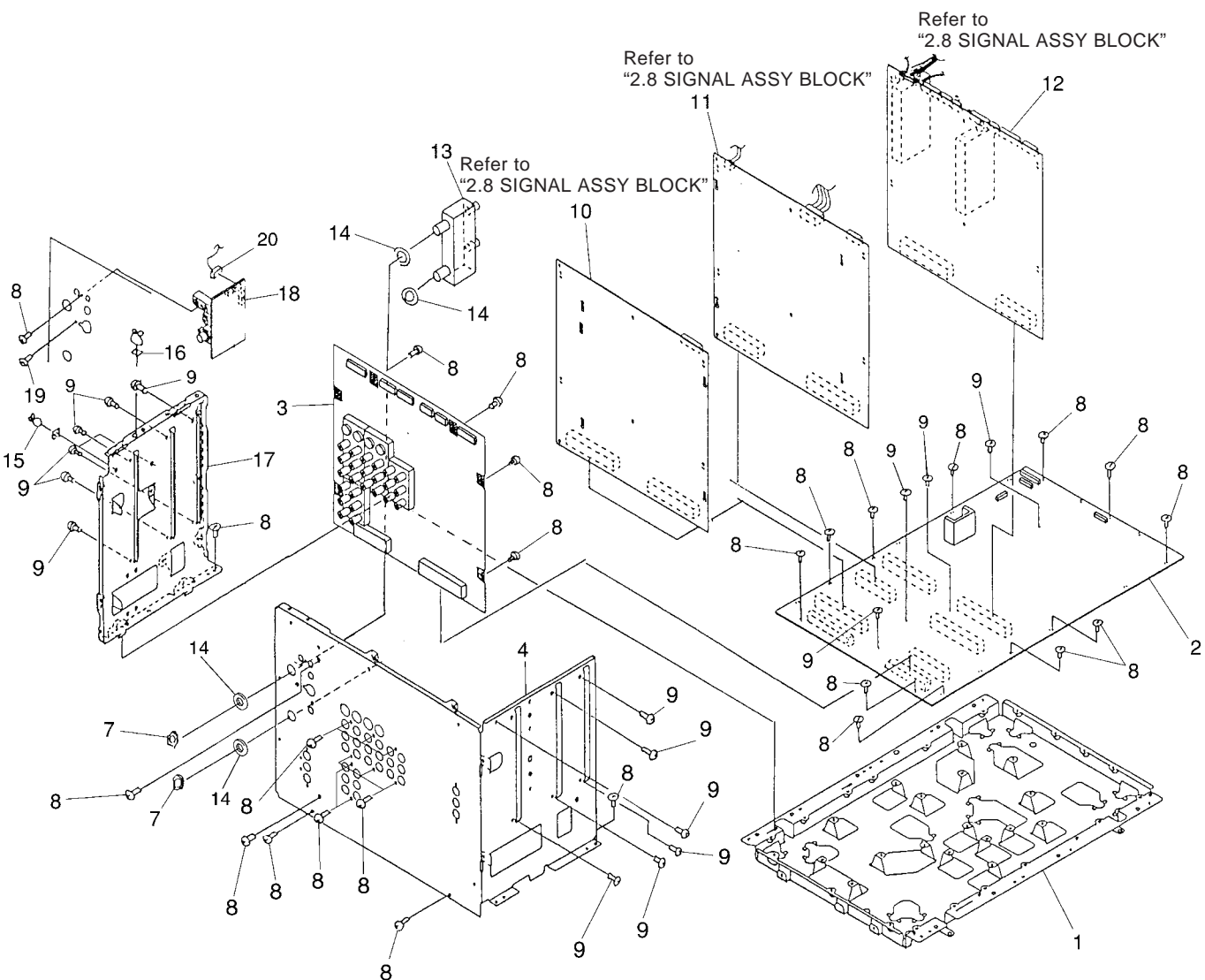
2.6 CRT BLOCK



(1) CRT BLOCK PARTS LIST

Mark	No.	Description	Part No.
☆	1	Lens Assy	AMR3121
☆	2	CRT Service Assy 64R	AWY1414
☆	3	CRT Service Assy G	AWY1413
☆	4	CRT Service Assy 64B	AWY1415
	5	Screw	AMZ40P080FZK
	6	Screw	FBT40P120FZK
	7	Screw	ABA1168
	8	.....
△	9	Deflection Yoke (L1)	ATL1136
△	10	Deflection Yoke (L2)	ATL1136
△	11	Deflection Yoke (L3)	ATL1136
△	12	VM Coil (L4)	ATL1137
△	13	VM Coil (L5)	ATL1137
△	14	VM Coil (L6)	ATL1137
	15	R.CRT DRIVE Assy	AWZ6344
	16	G. CRT DRIVE Assy	AWZ6345
	17	B. CRT DRIVE Assy	AWZ6346
	18	.....
	19	.....
NSP	20	CRT Rear Frame 62	ANA1542
NSP	21	CRT Front Frame 62	ANA1541
	22	Nylon Binder	AEC-093

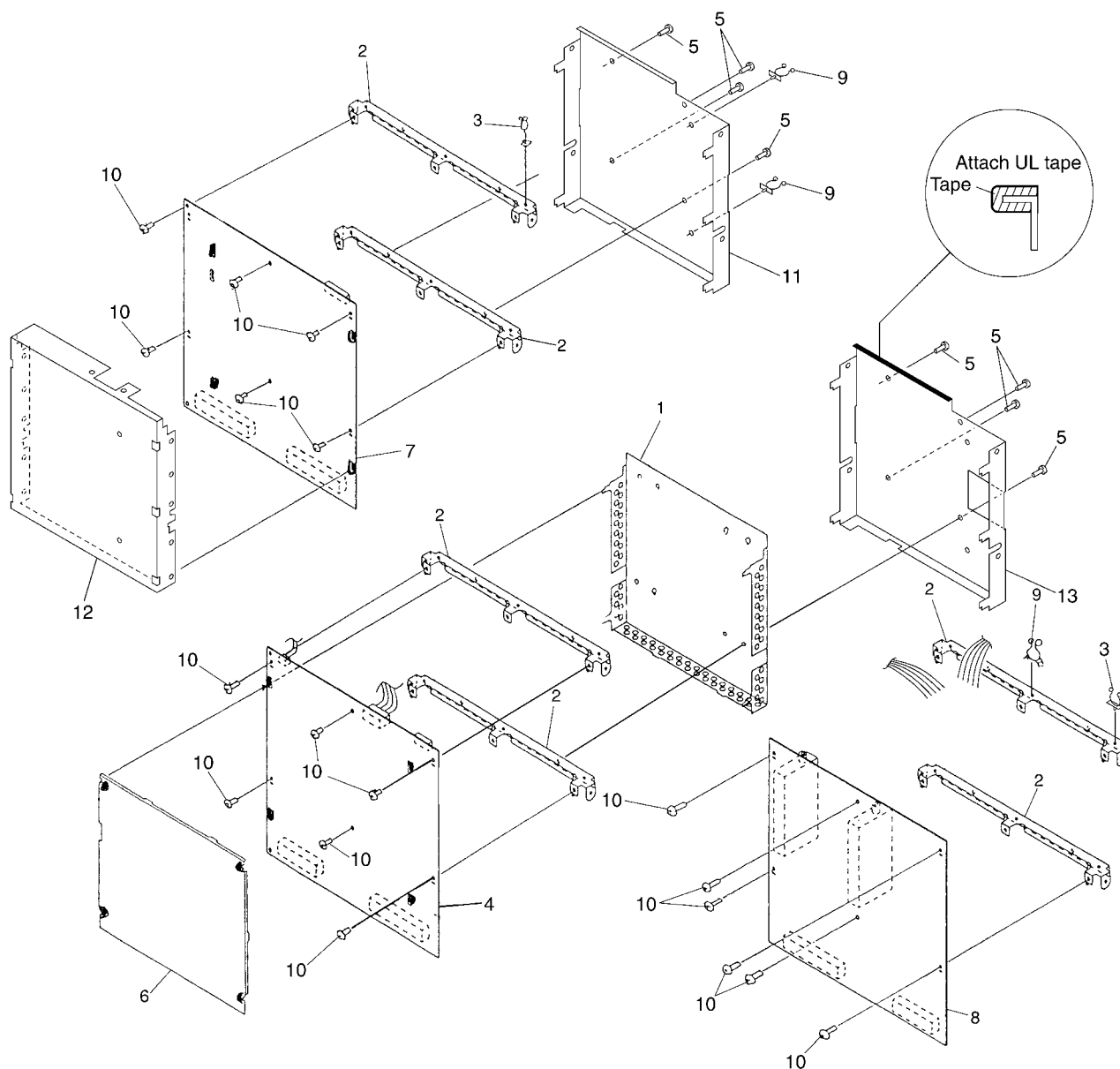
2.7 VIDEO BLOCK



(1) VIDEO BLOCK PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	Video Chassis	ANA1584		11	SIGNAL Assy	AWV1717
	2	VIDEO Assy	AWV1716		12	SUB VIDEO Assy	AWV1718
	3	AV / IO Assy	AWV1714		13	RF Switch	AXF1098
	4	Rear Panel	ANC2321		14	Washer	WAXOF160N100
	5	.....		NSP	15	Lead Clamper M	AEC1611
	6	.....		NSP	16	Cable Clip	AEP-214
	7	Nut	ABN-087	NSP	17	PCB Side Holder	ANG2305
	8	Screw	BBZ30P080FZK		18	SR BNC Assy	AWZ6342
	9	Screw	BBZ30P080FCU		19	Screw	BCZ30P080FZK
	10	TUNER u-COM Assy	AWV1715		20	4P Housing Wire (J13)	ADX2490

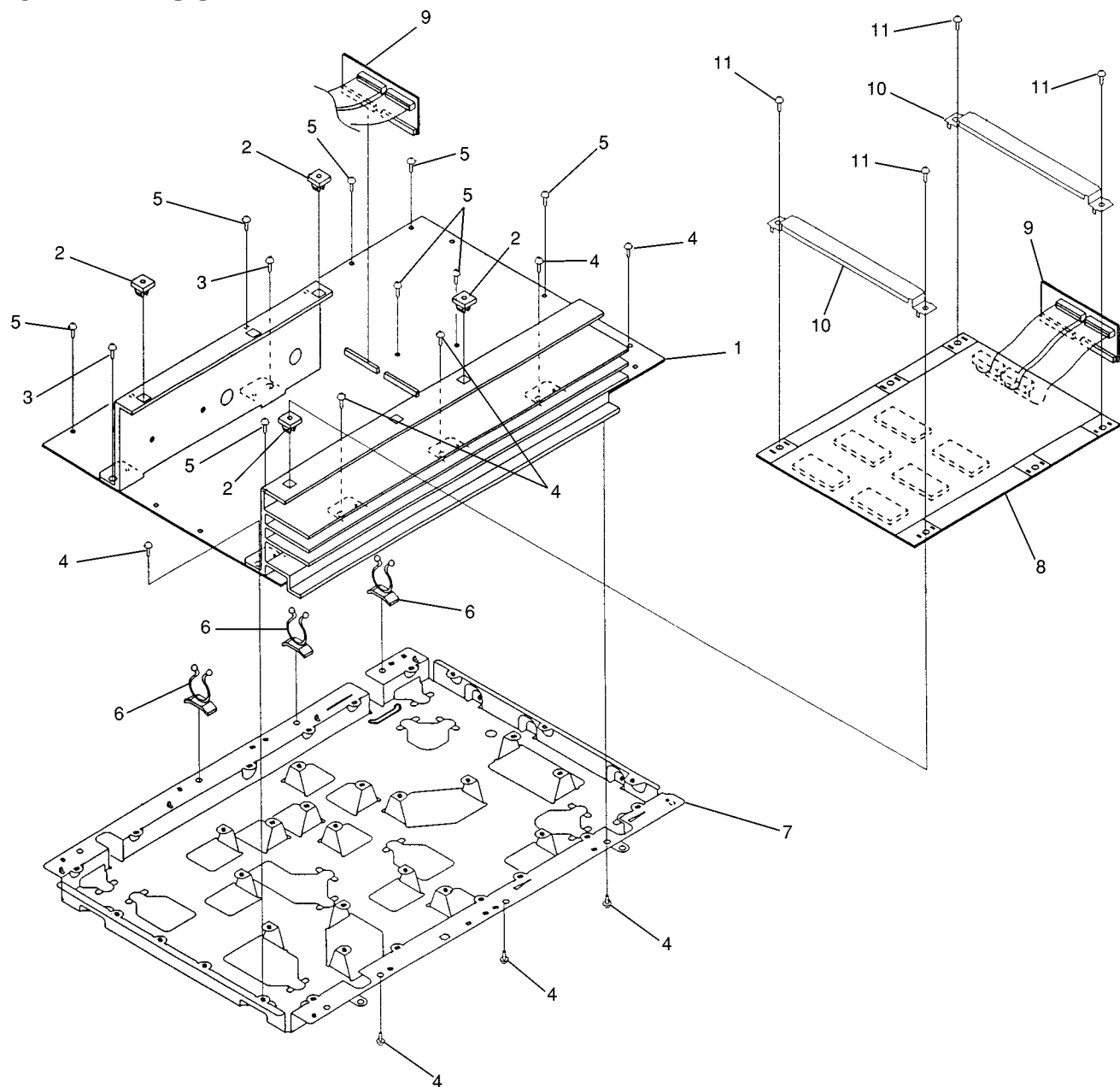
2.8 SIGNAL ASSY BLOCK



(1) SIGNAL ASSY BLOCK PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Shield Cover	ANK1562		11	Shield Front Cover B	ANK1592
NSP	2	PCB Sub-Frame	ANG2304		12	Shield Rear Cover B	ANK1596
NSP	3	Lead Clamper M	AEC1611		13	Shield Front Cover A	ANK1591
	4	SUB VIDEO Assy	AWV1718				
	5	Screw	BBZ30P080FCU				
NSP	6	Analog Shield B	ANK1537				
	7	SIGNAL Assy	AWV1717				
	8	TUNER u-COM Assy	AWV1715				
NSP	9	Cable Clip D3M	AEC1783				
	10	Screw	ABZ30P080FCU				

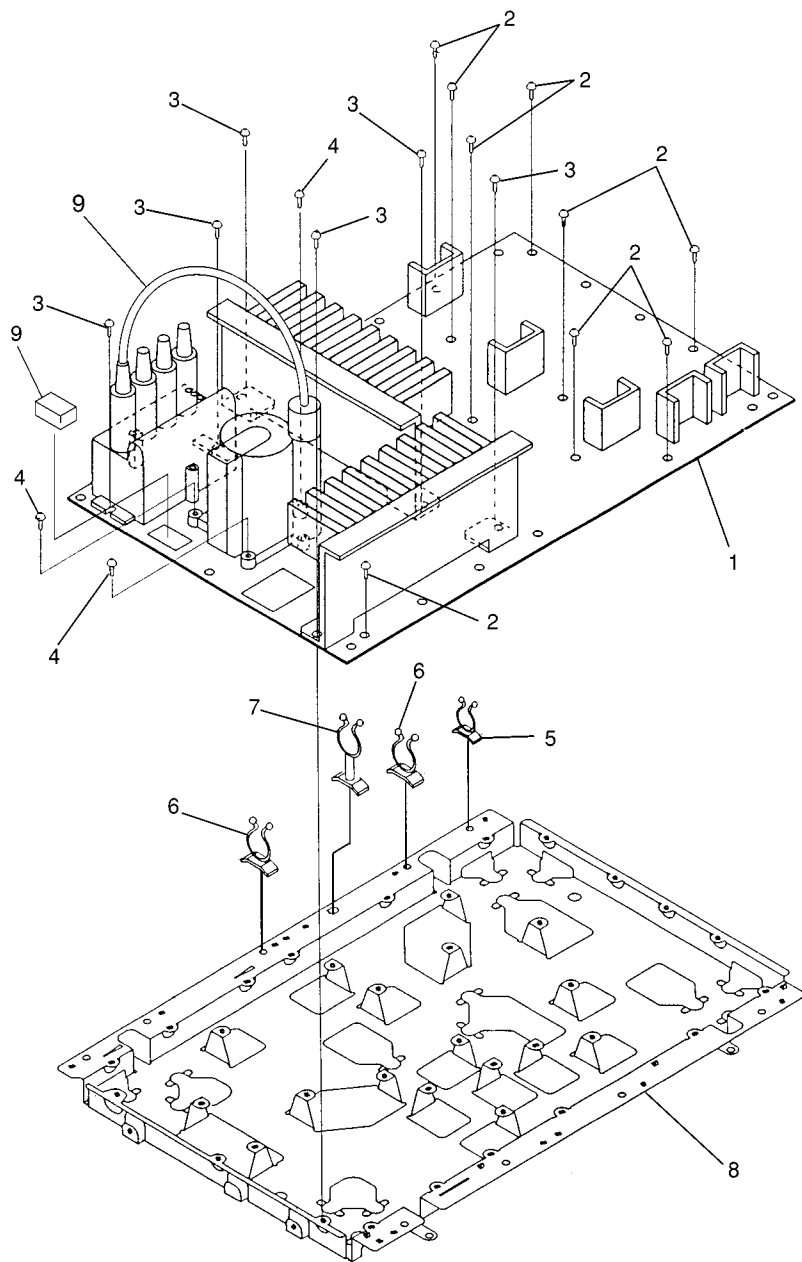
2.9 AMP BLOCK



(1) AMP BLOCK PARTS LIST

Mark	No.	Description	Part No.
	1	AMP Assy	AWV1712
	2	Grommet	AEC1418
	3	Special Screw	ABA1099
	4	Screw	ABZ30P100FZK
	5	Screw	BBZ30P080FZK
NSP	6	Cable Clip D3M	AEC1783
NSP	7	AMP Chassis	ANA1585
	8	CONVER . DAC Assy	AWZ6333
	9	CONNECTOR Assy	AWZ6335
NSP	10	Head Sink Holder	ANG2306
	11	Screw	VPZ40P120FZK
	12		

2.10 DEFLECTION BLOCK

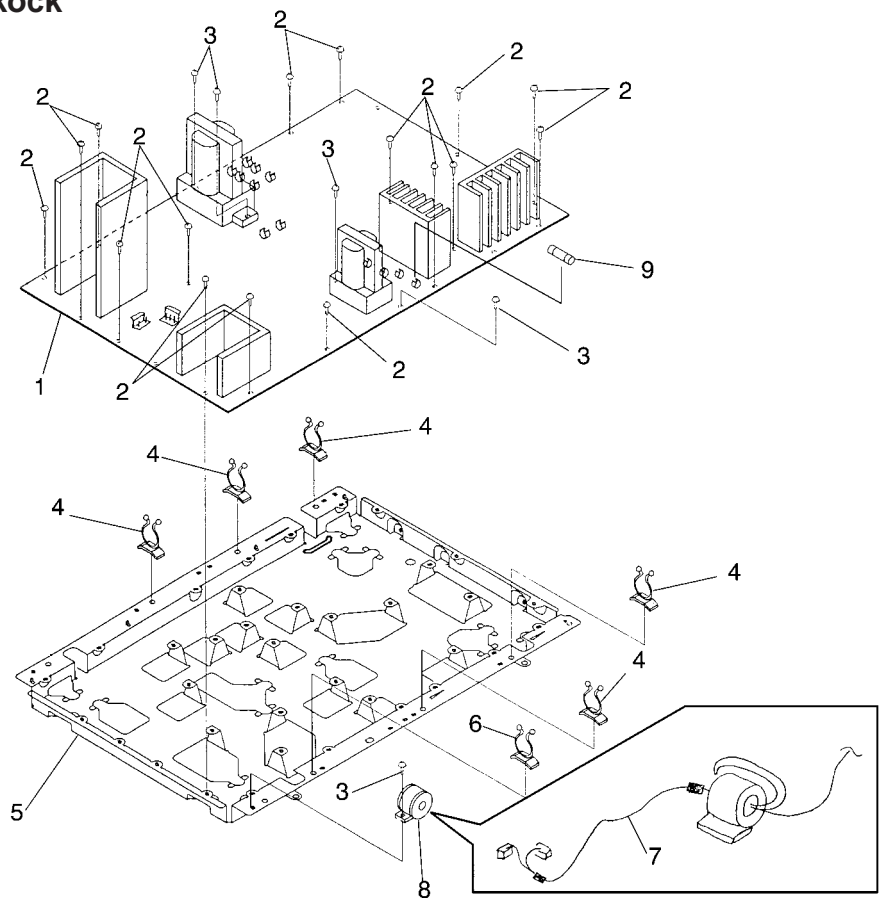


(1) DEFLECTION BLOCK PARTS LIST

Mark	No.	Description	Part No.
☆	1	DEFLECTION SERVICE Assy	AWV1731
	2	Screw	BBZ30P080FZK
	3	Screw	ABZ30P100FZK
	4	Screw	VBZ30P200FMC
NSP	5	Cable Clip D3S	AEC1782
NSP	6	Cable Clip D3M	AEC1783
NSP	7	Cable Clip	AEC1325
NSP	8	DF Chassis	ANA1583
	9	Shield Case	ANK1510

2.11 POWER SUPPLY / AC IN BLOCK

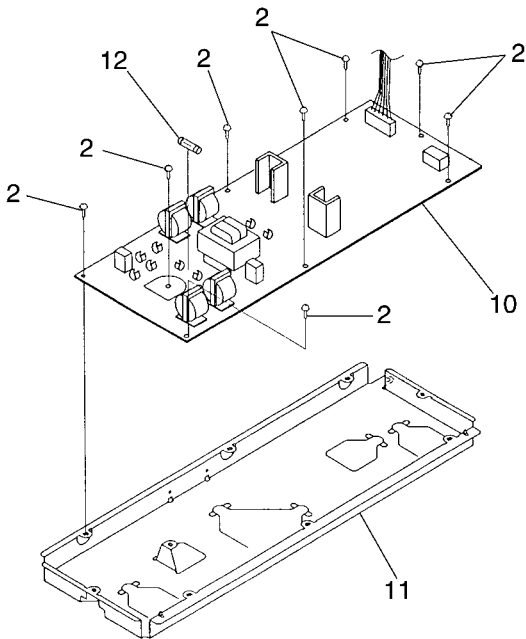
Power Supply Bkock



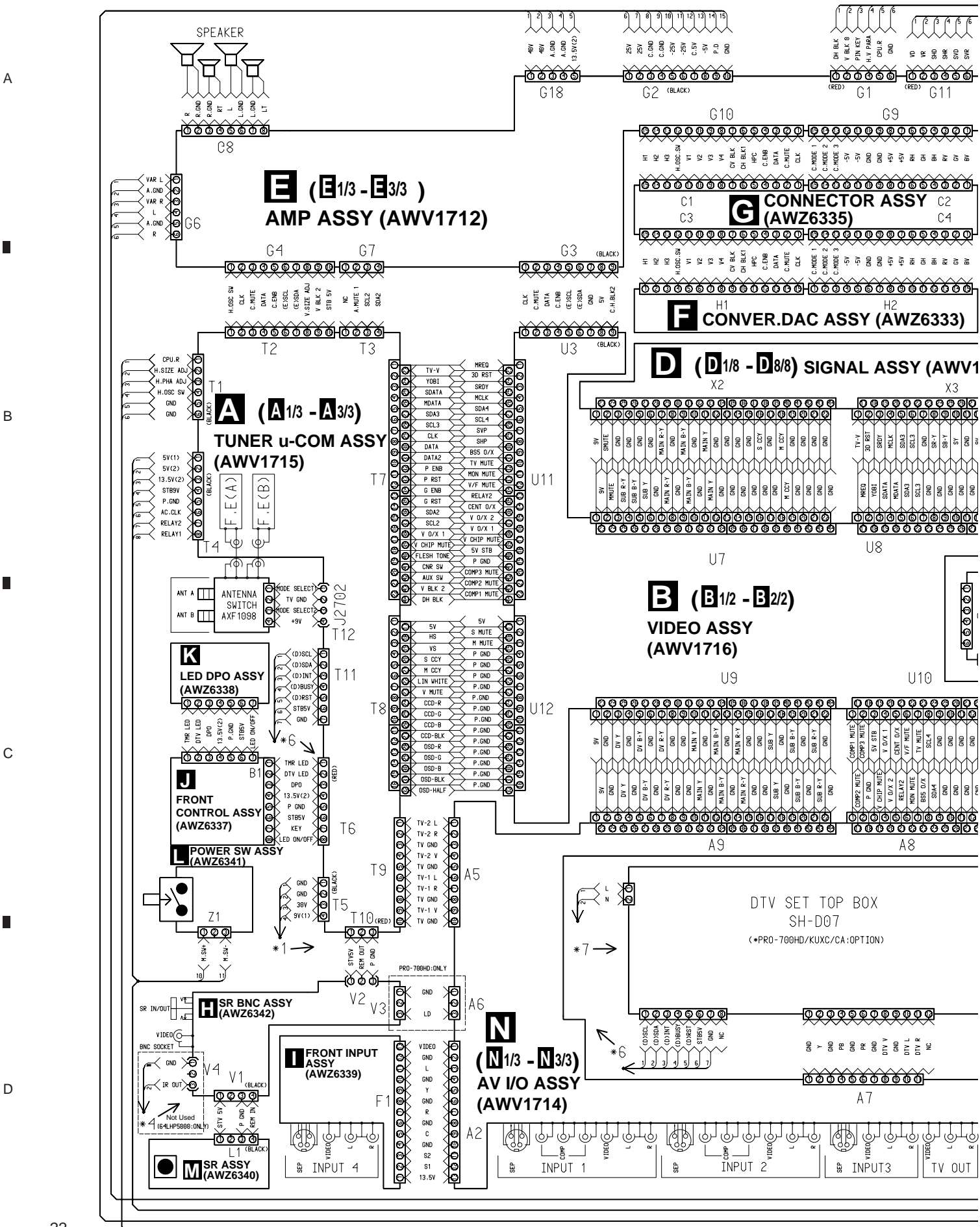
AC IN Block

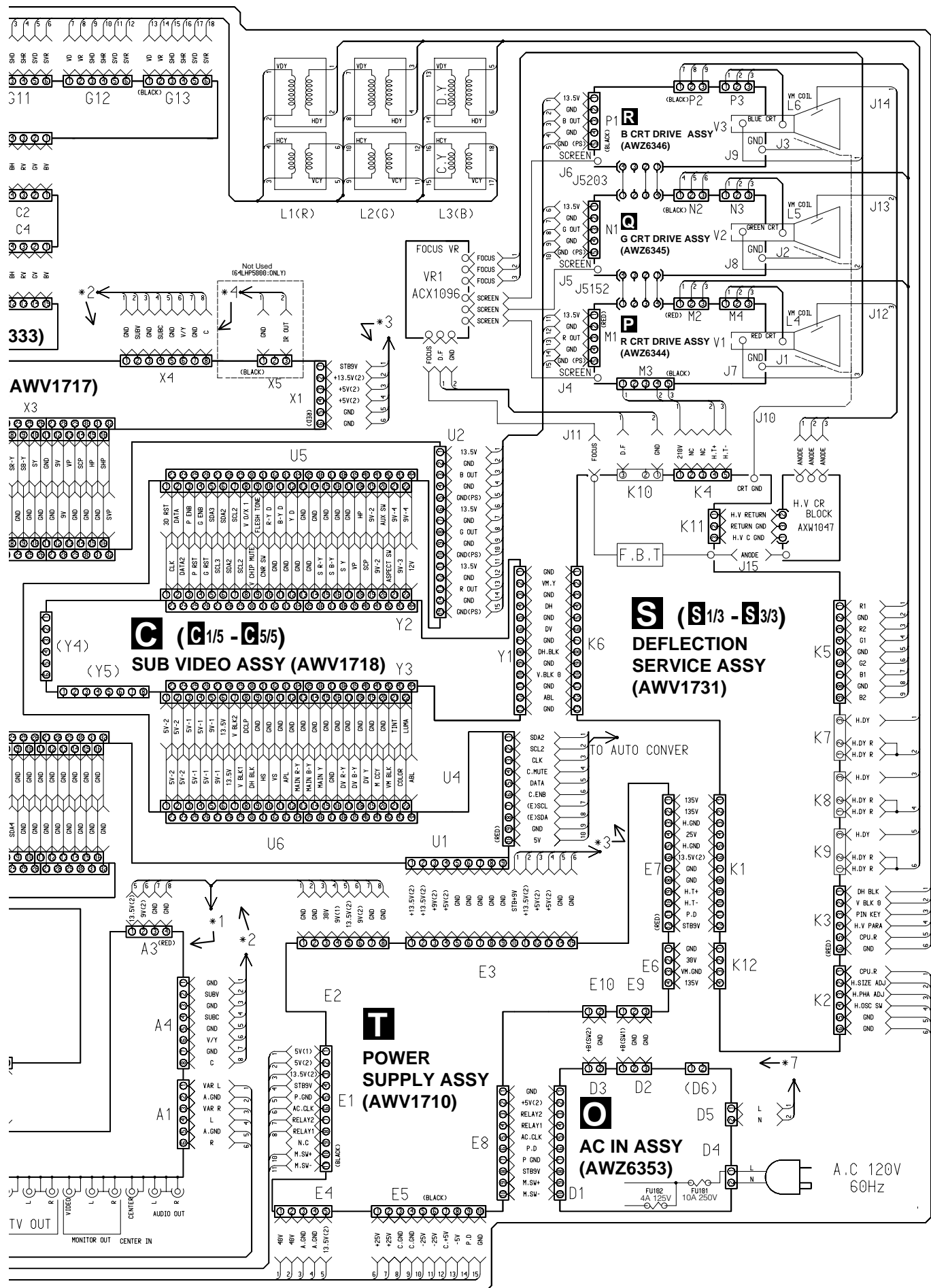
(1) POWER SUPPLY / AC IN BLOCK PARTS LIST

Mark	No.	Description	Part No.
	1	POWER SUPPLY Assy	AWV1710
	2	Screw	BBZ30P080FZK
	3	Screw	ABZ30P100FZK
NSP	4	Cable Clip D3S	AEC1782
NSP	5	PS Chassis	ANA1582
NSP	6	Cable Clip D3M	AEC1783
	7	Wire Harness D (J15)	ADX2489
	8	Ferrite Core	ATX1033
△	9	Fuse (6.3A/125V)	REK1085
	10	AC IN Assy	AWZ6353
NSP	11	LF Chassis	ANA1586
△	12	Fuse (500mA/125V)	AEK1010



3.1. OVERALL CONNECTION DIAGRAM





(CXA1734S)

oltage [V]	Pin No.	Voltage [V]
—	16	2.9
—	17	0
0	18	3.6
0	19	3.6
1.3	20	3.5
1.3	21	4.0
3.9	22	1.7
3.9	23	4.0
3.3	24	3.9
3.6	25	3.9
4.0	26	1.8
1.3	27	1.3
3.6	28	4.0
3.6	29	4.0
9.0	30	—

FRONT END
M2701 (M2801)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	7.0	10	—
2	1.0	11	—
3	0*	12	—
4	—	13	9.0
5	—	14	4.7
6	9.0	15	0
7	5.0	16	3.0
8	—	17	—
9	33	18	4.7

*M2801 [5V]

Notes

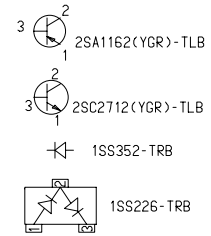
1.RESISTORS

Indicated in Ω
tolerance unless otherwise noted k Ω

2.CAPASITORS

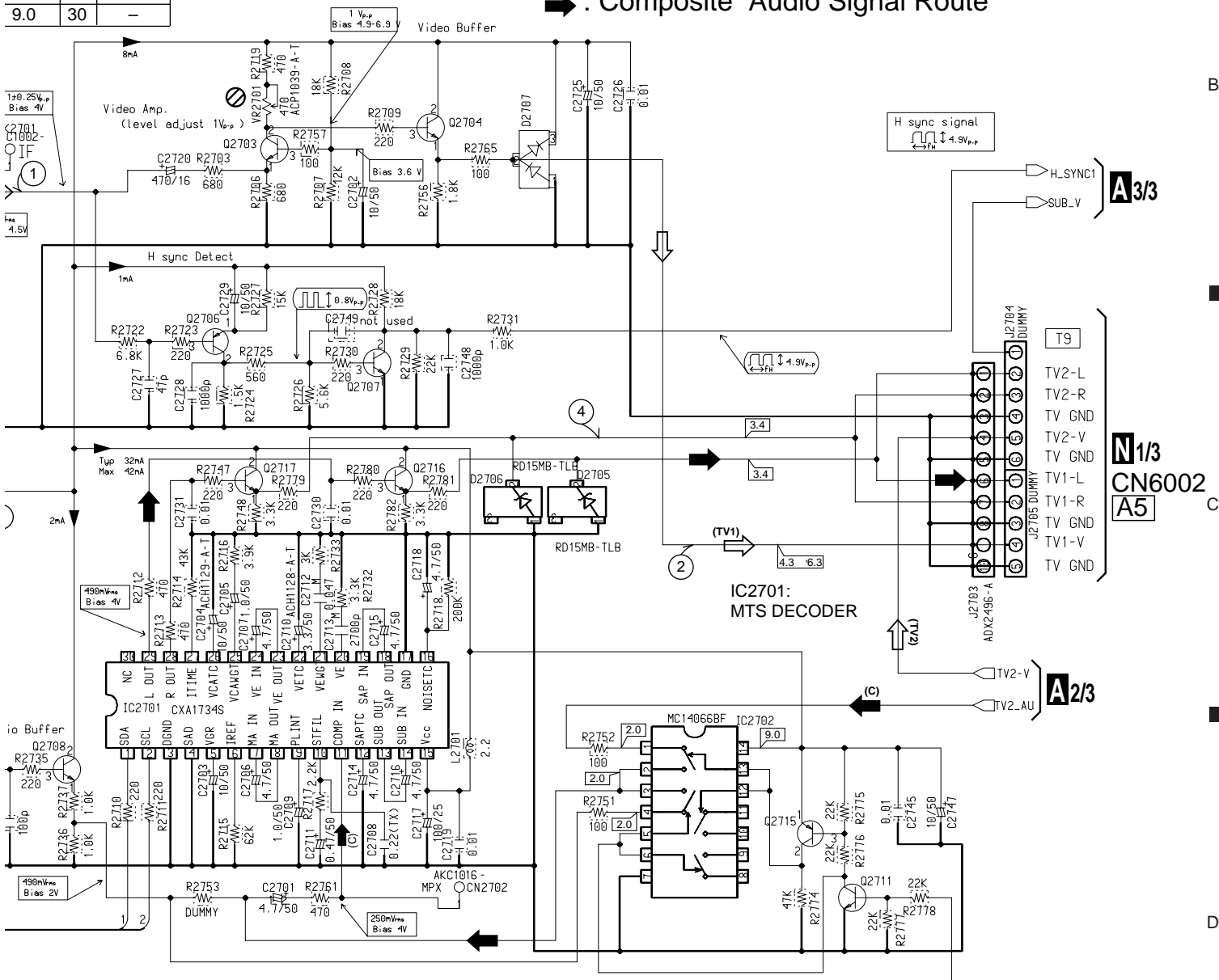
Indicated in capacity(uF)/Voltage unless
otherwise noted p pF

Indication without voltage is 50V except electrolytic capacitor.



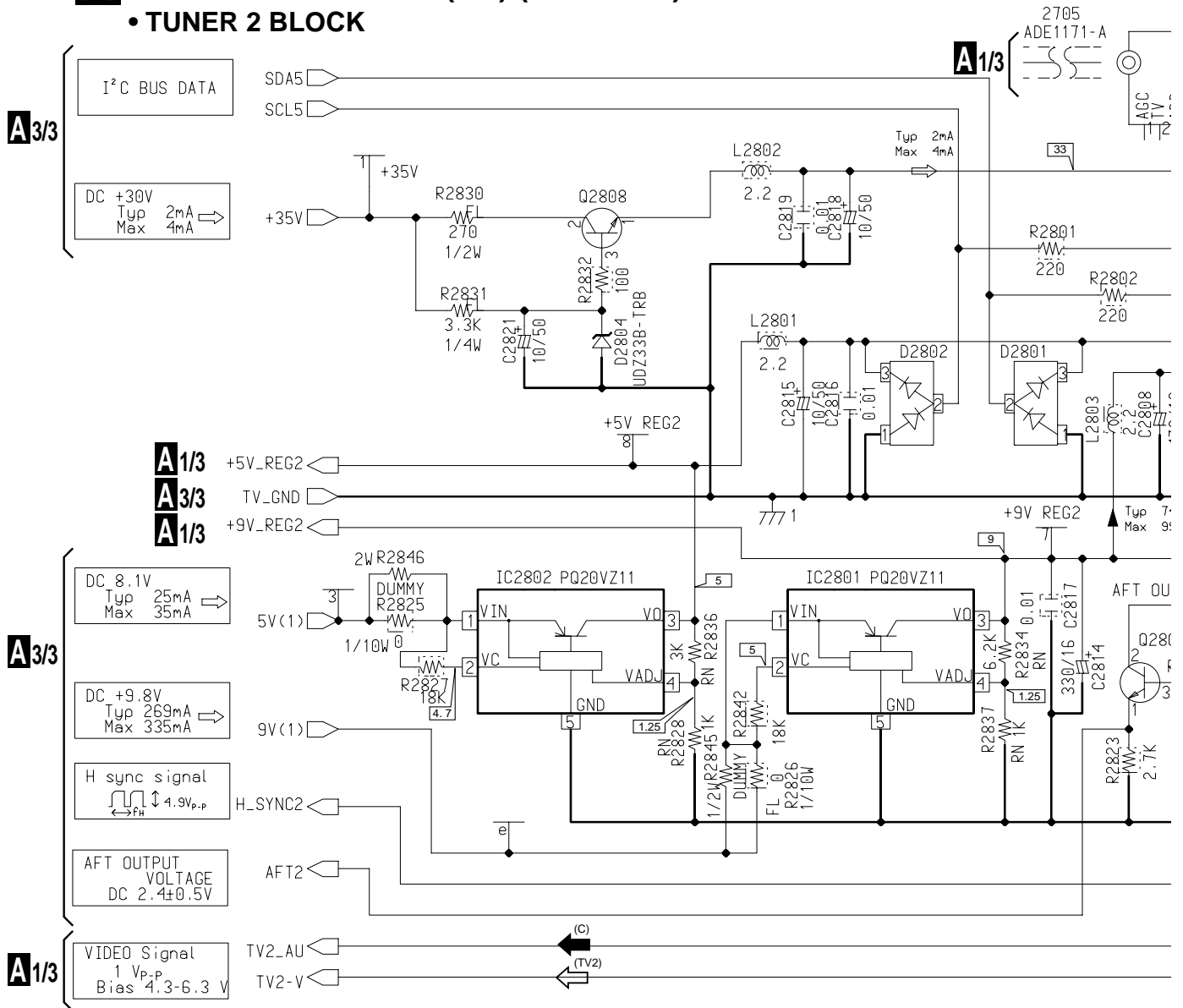
SIGNAL ROUTE

- ⇨ : Video Signal Route (TV1,TV2)
 ⇨ : Audio Signal Route (TV1.L,TV2.L)
 (C) ⇨ : Composite Audio Signal Route



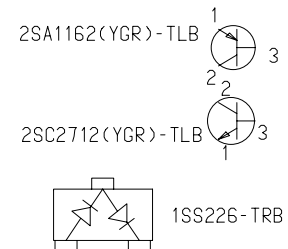
3.3 TUNER u-COM ASSY (2/3)

A TUNER u-COM ASSY(2/3) (AWV1715) • TUNER 2 BLOCK





1.RESISTERS indicated in 1/2W,1/4W,1/10W,1WFL,2WFL 5% tolerance unless otherwise noted K;M; (F)+1% , (G)+2% , (K)+10% , (M)+20% tolerance

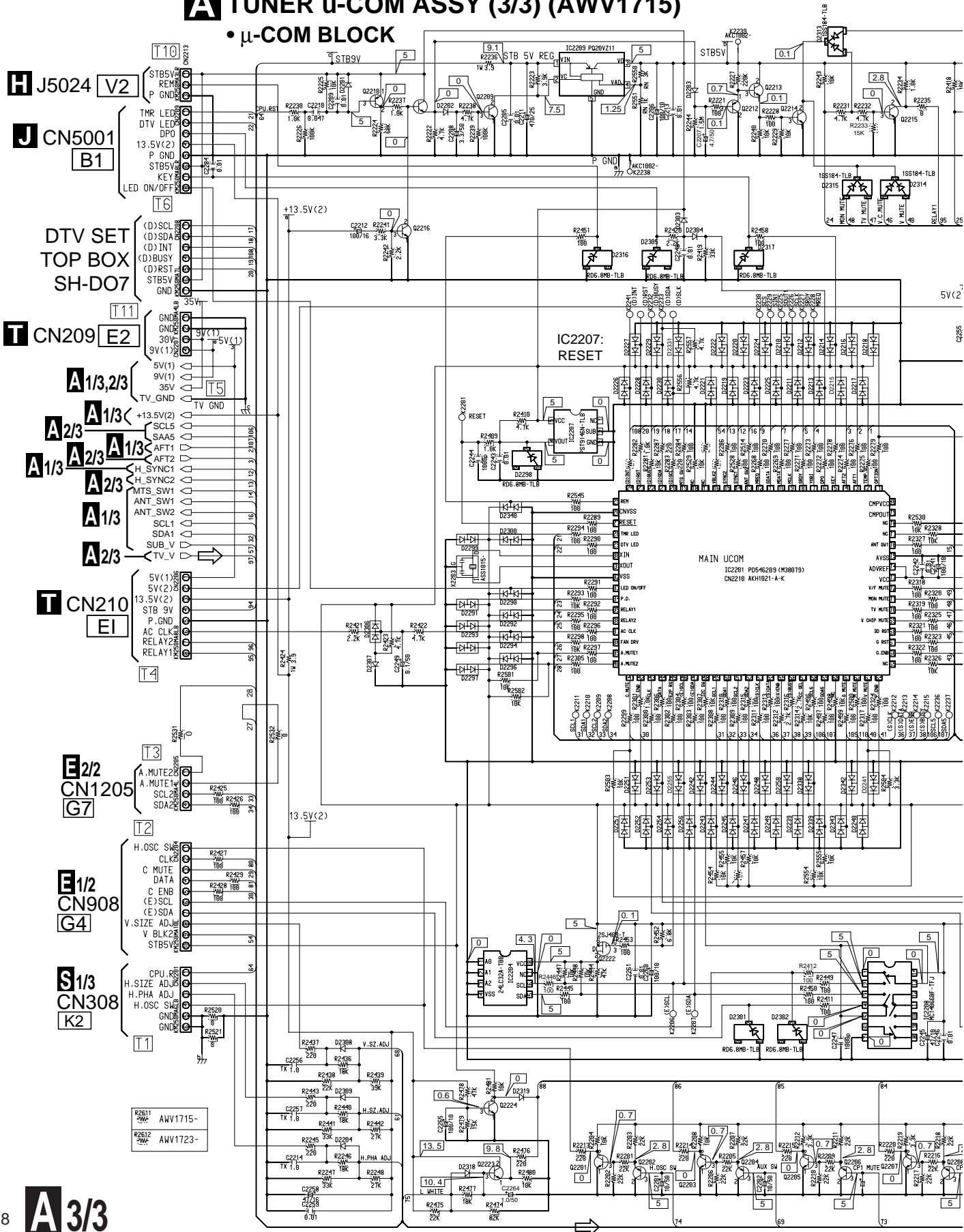
2.CAPACITORS indicated in capacity (uF)/(V) unless otherwise noted pF indicated without voltage is 50V except electrolytic capacitor

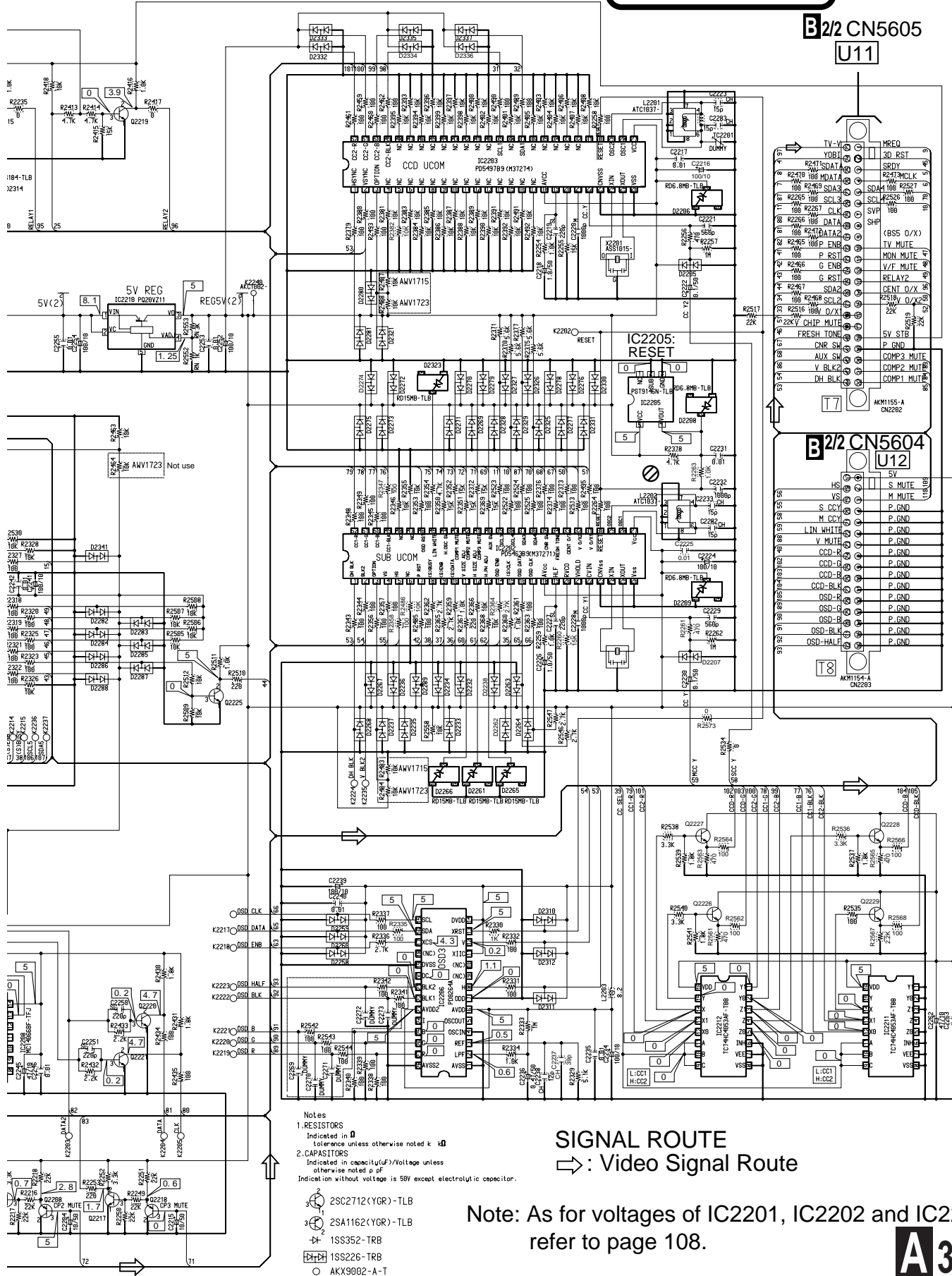
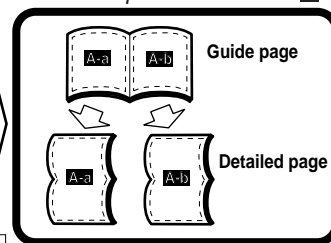
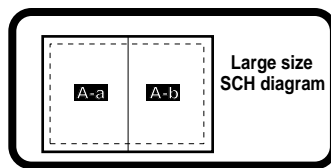




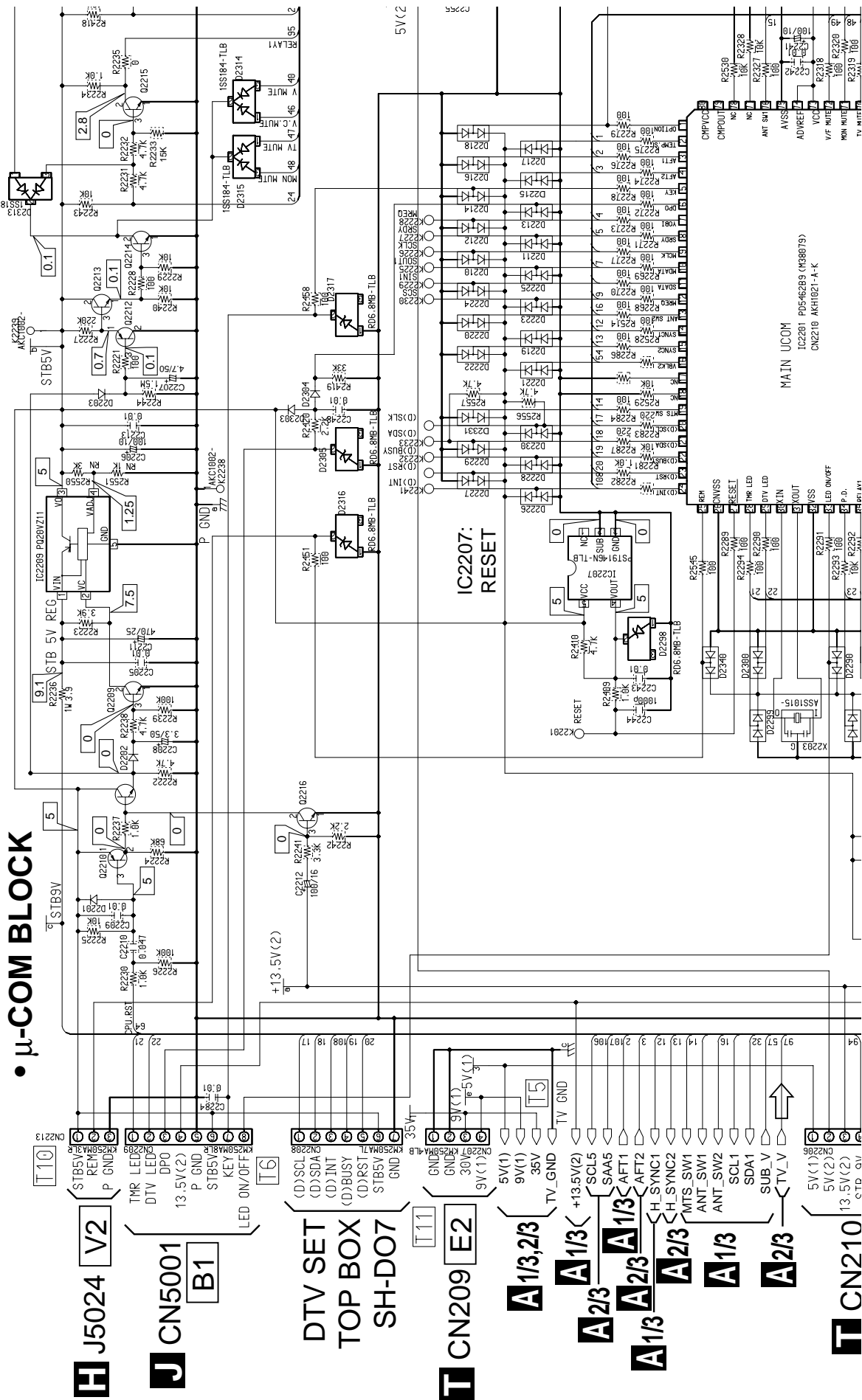
 : Video Signal Route (TV2)
 : Composite Audio Signal Route

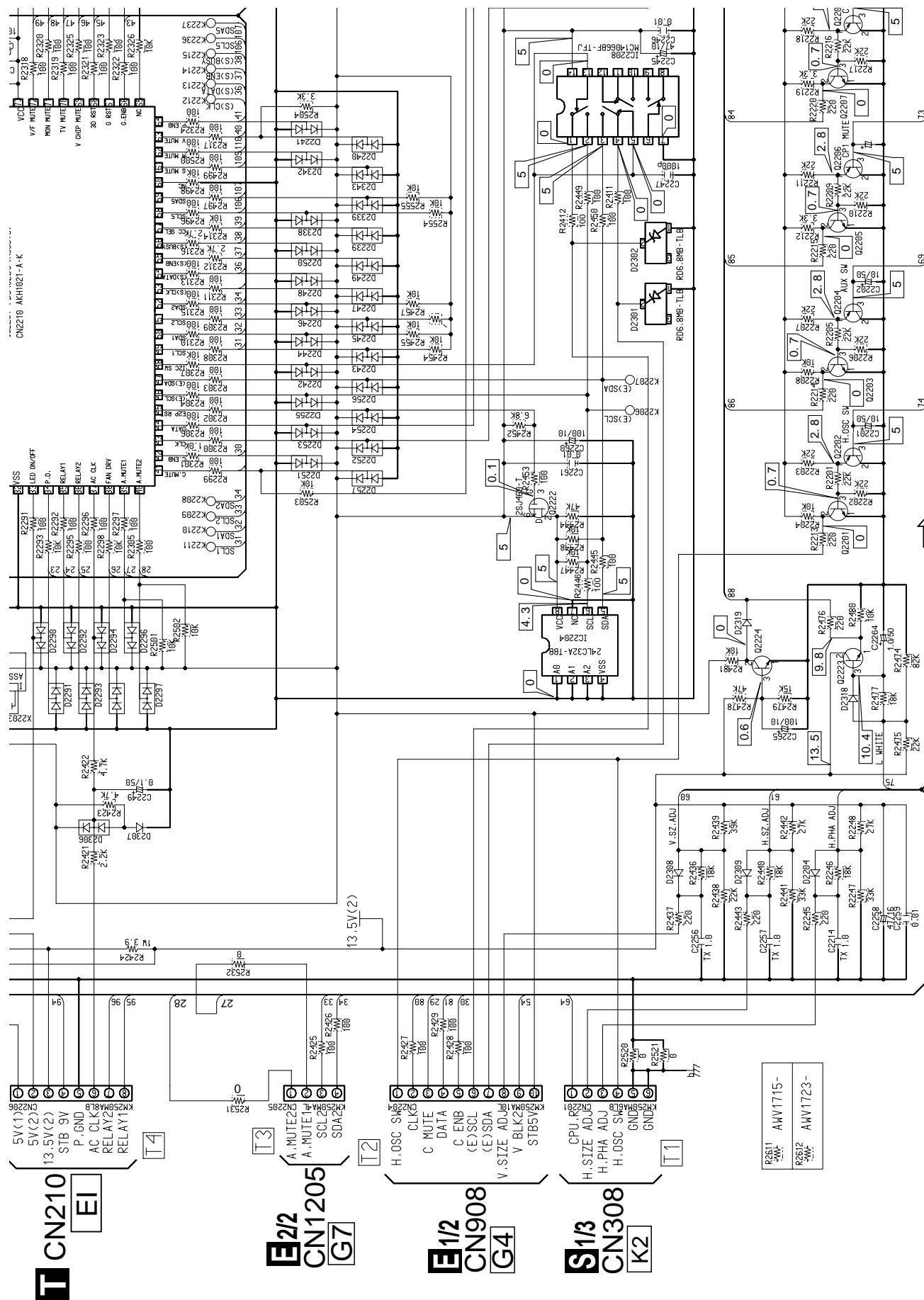
A TUNER u-COM ASSY (3/3) (AWV1715)

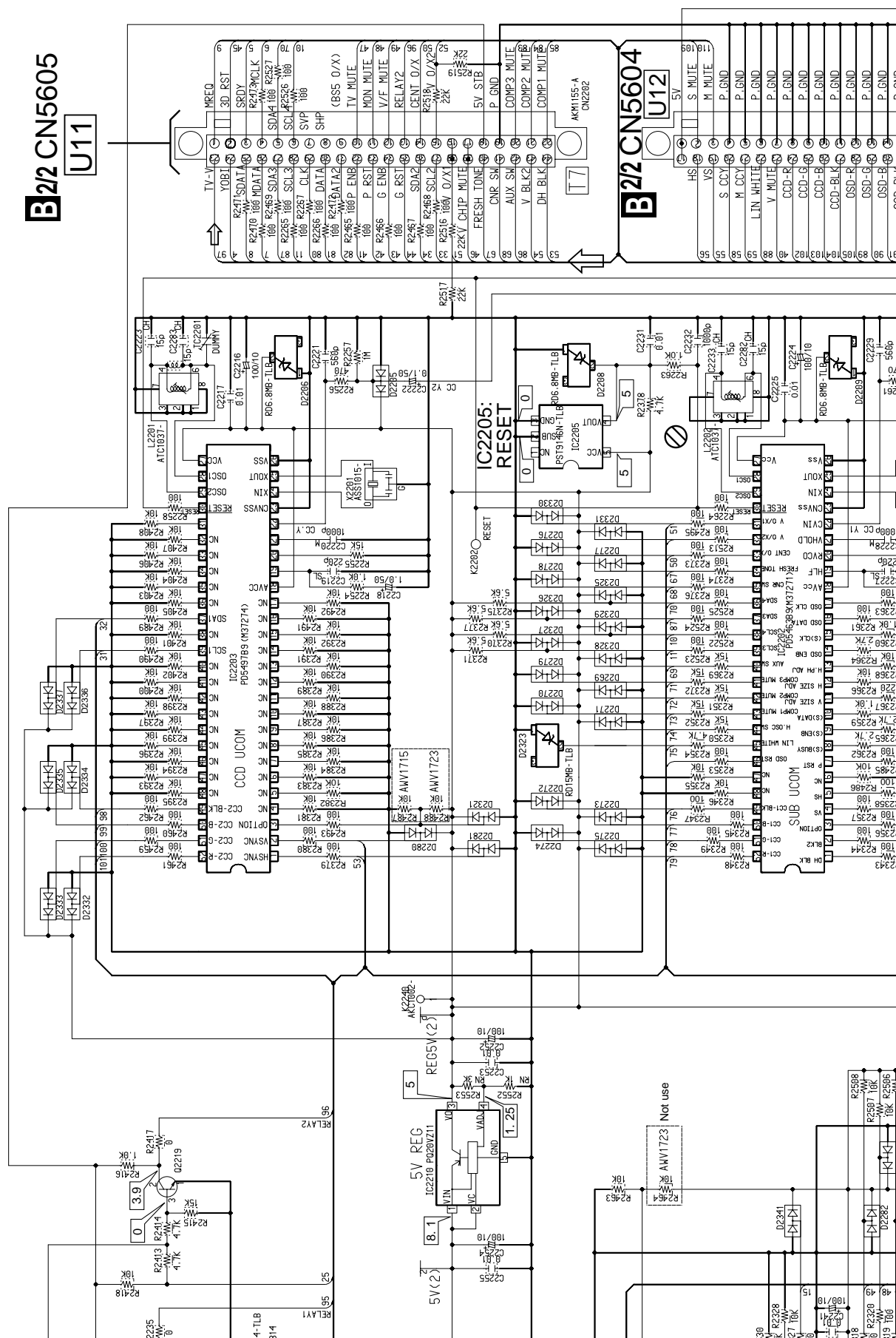


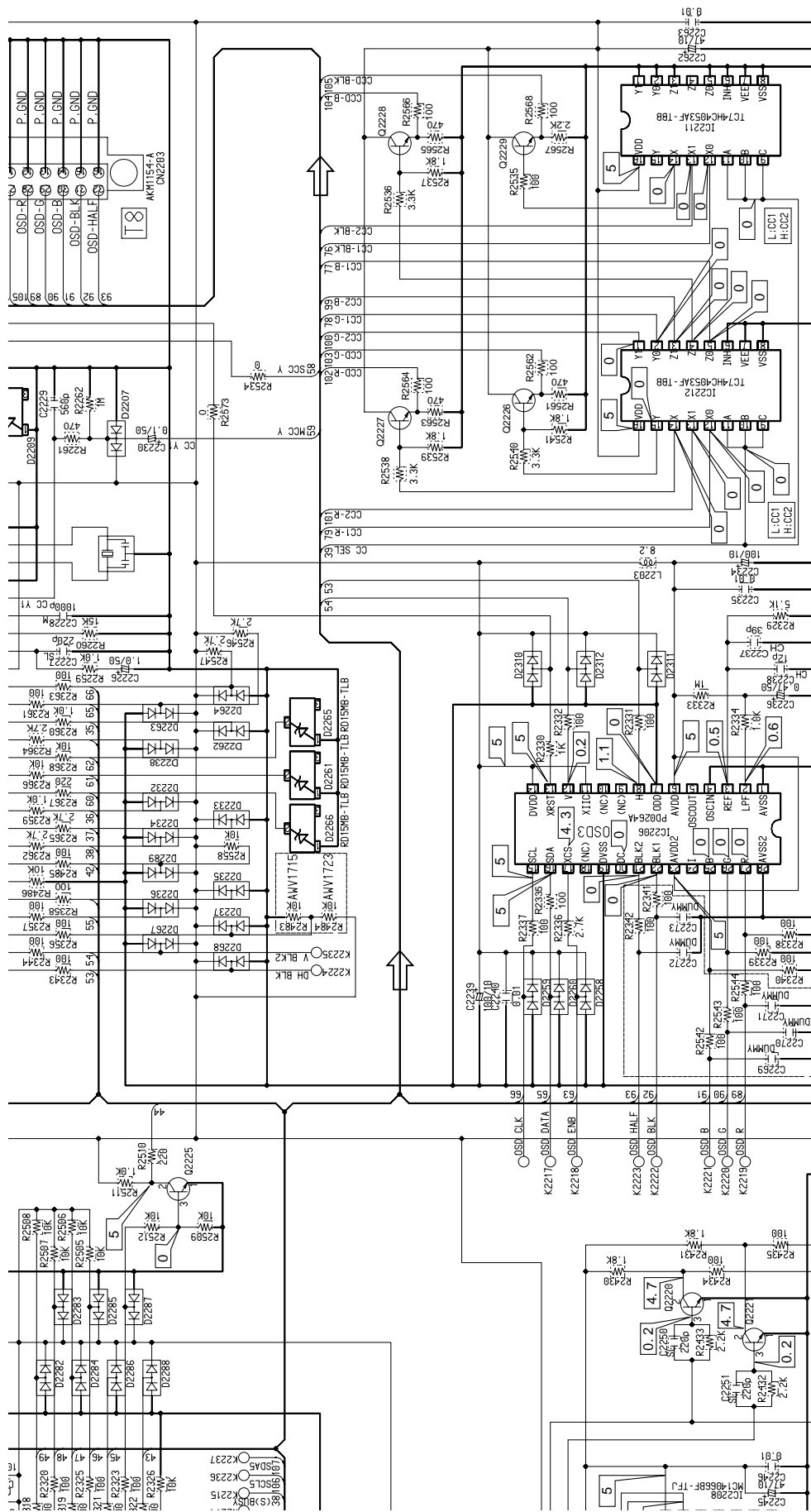


- μ -COM BLOCK









Notes

RESISTORS

Indicated in **Ω**
tolerance unless otherwise noted **k** **M**

CAPACITORS

Indicated in capacity(**μF**) voltage unless
otherwise noted **p** **μF**

Indication without voltage is 50V except electrolytic capacitor.

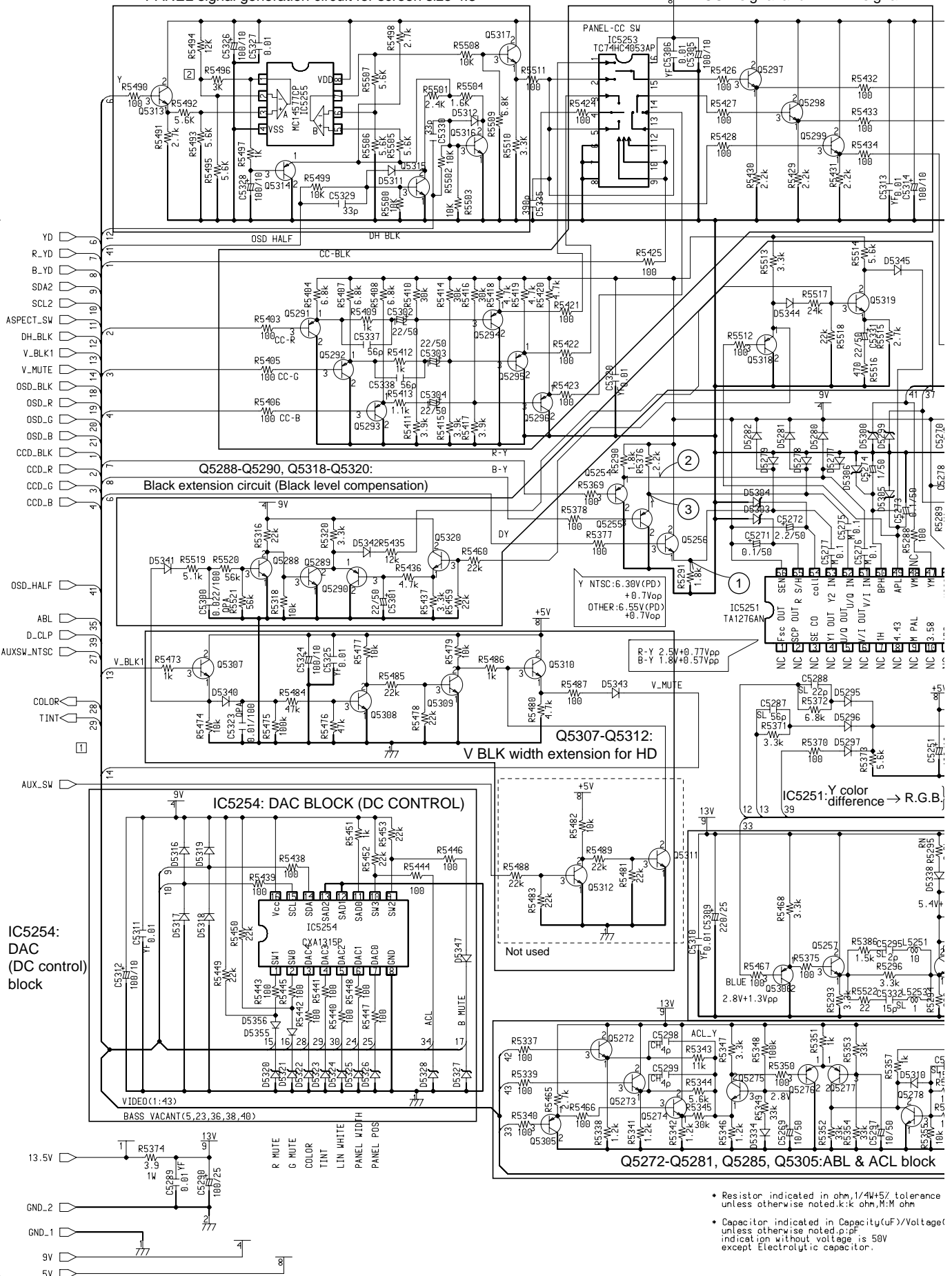
Note: As for voltages of IC2201, IC2202 and IC2203 refer to page 108.

2SC2712(YGR) - TLB
2SA1162(YGR) - TLB
1SS352 - TRB
1SS226 - TRB
AKX9002-A-T

PRO-700HD 3.5 VIDEO ASSY (1/2)

IC5255, Q5313-Q5317:
PANEL signal generation circuit for screen size 4:3

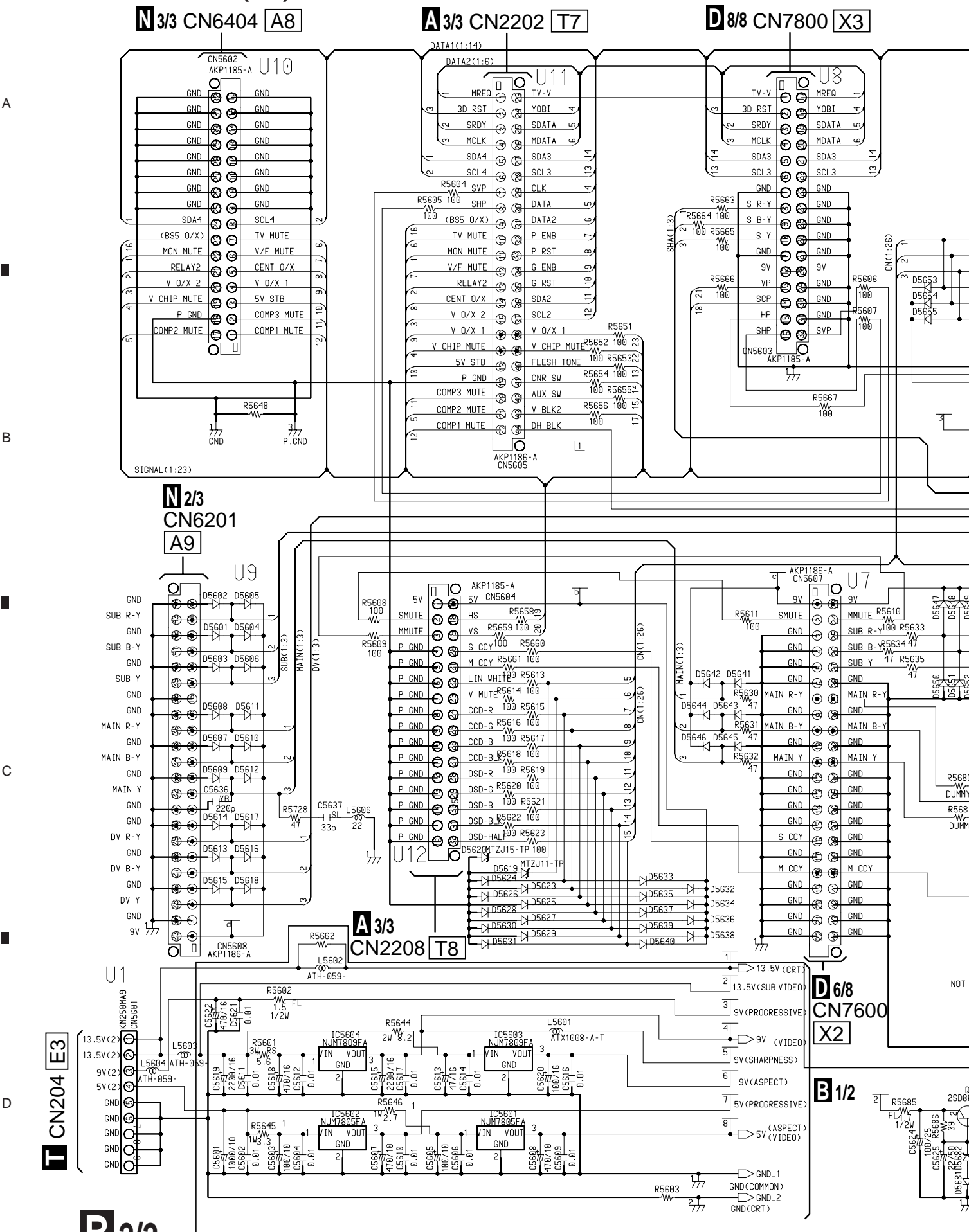
IC5253, Q5291-Q5299:
Circuit switching between
CCD signal and PANEL signal



- Resistor indicated in ohm,1/4W±5% tolerance unless otherwise noted.k:k ohm,M:M ohm
- Capacitor indicated in Capacity(uF)/Voltage(uV) unless otherwise noted.p:pF indication without voltage is 50V except electrolytic capacitor.

PRO-700HD

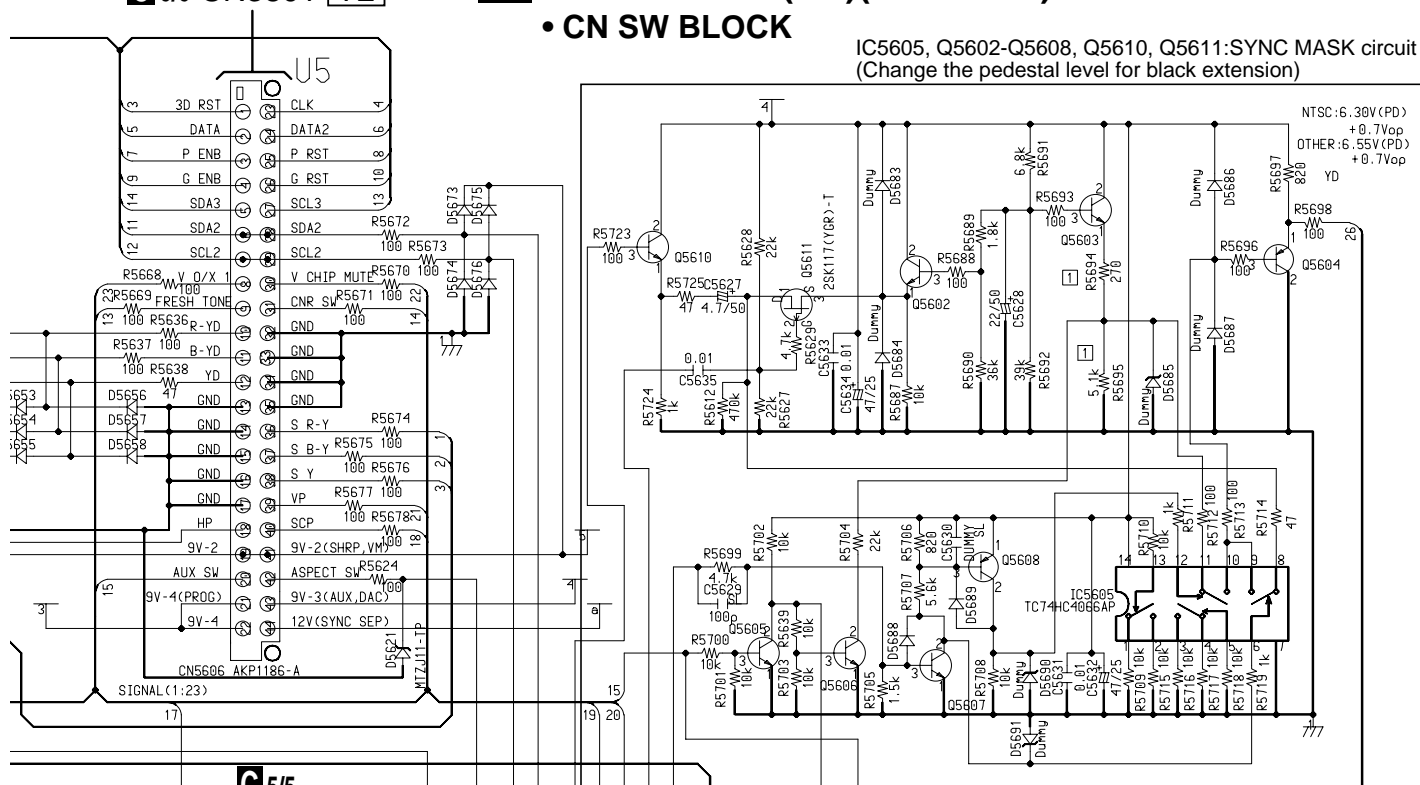
3.6 VIDEO ASSY (2/2)



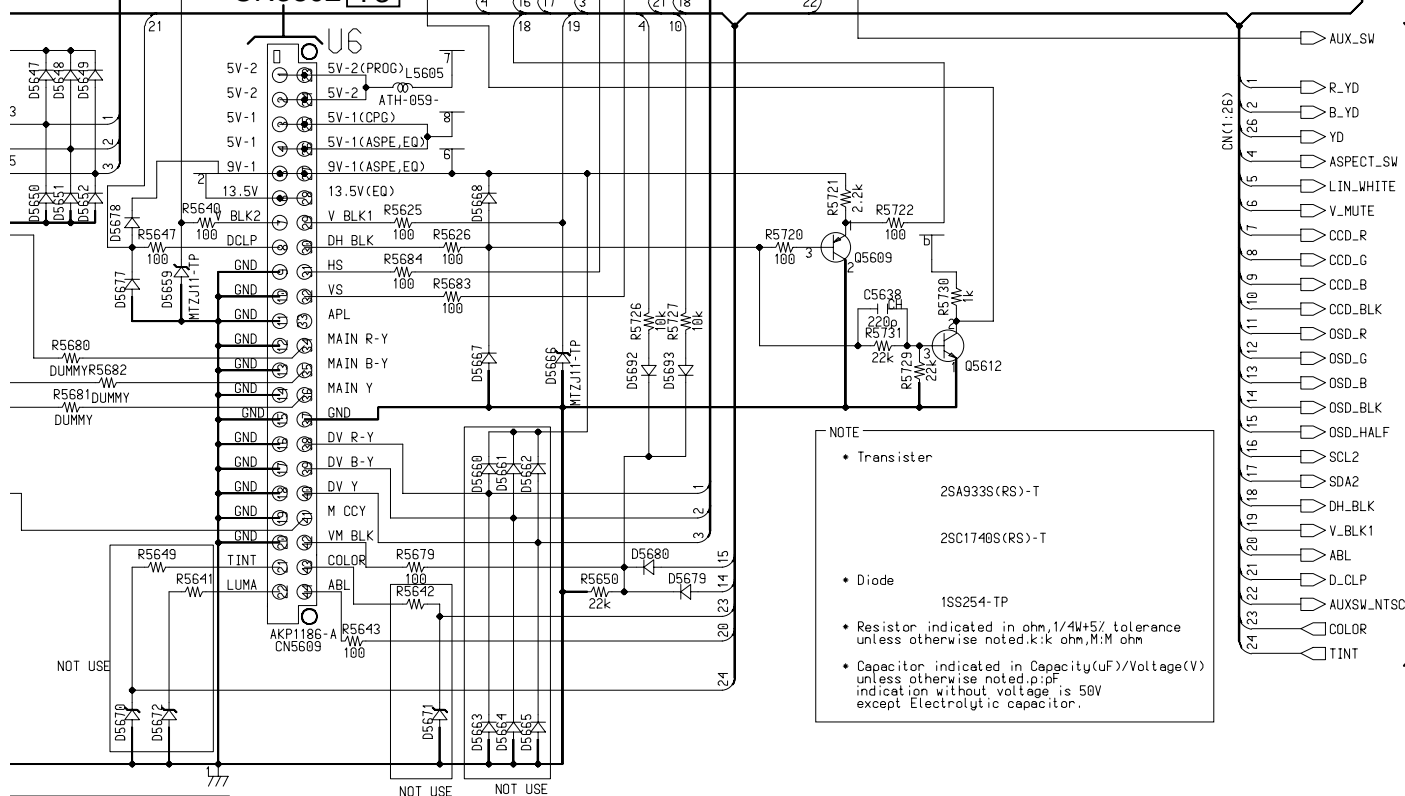
C5/5 CN3801 Y2

B VIDEO ASSY (2/2)(AWV1716)

• CN SW BLOCK

IC5605, Q5602-Q5608, Q5610, Q5611: SYNC MASK circuit
(Change the pedestal level for black extension)

C5/5 CN3802 Y3



NOTE

• Transister

2SA933S(RS)-T

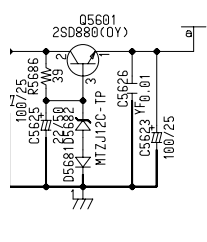
2SC1740S(RS)-T

• Diode

1SS254-TP

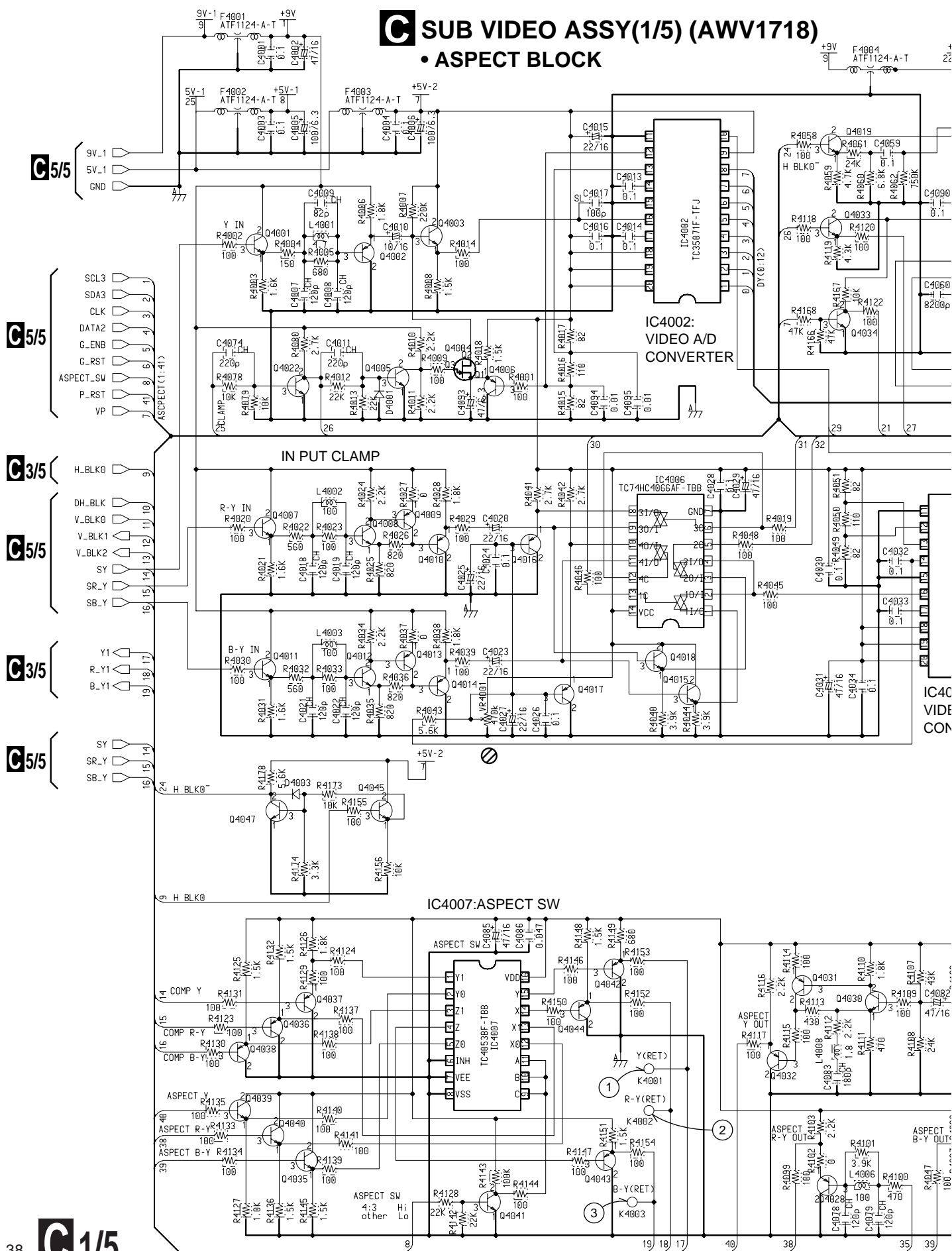
• Resistor: indicated in ohm, 1/4W+5% tolerance unless otherwise noted. k:k ohm, M:M ohm

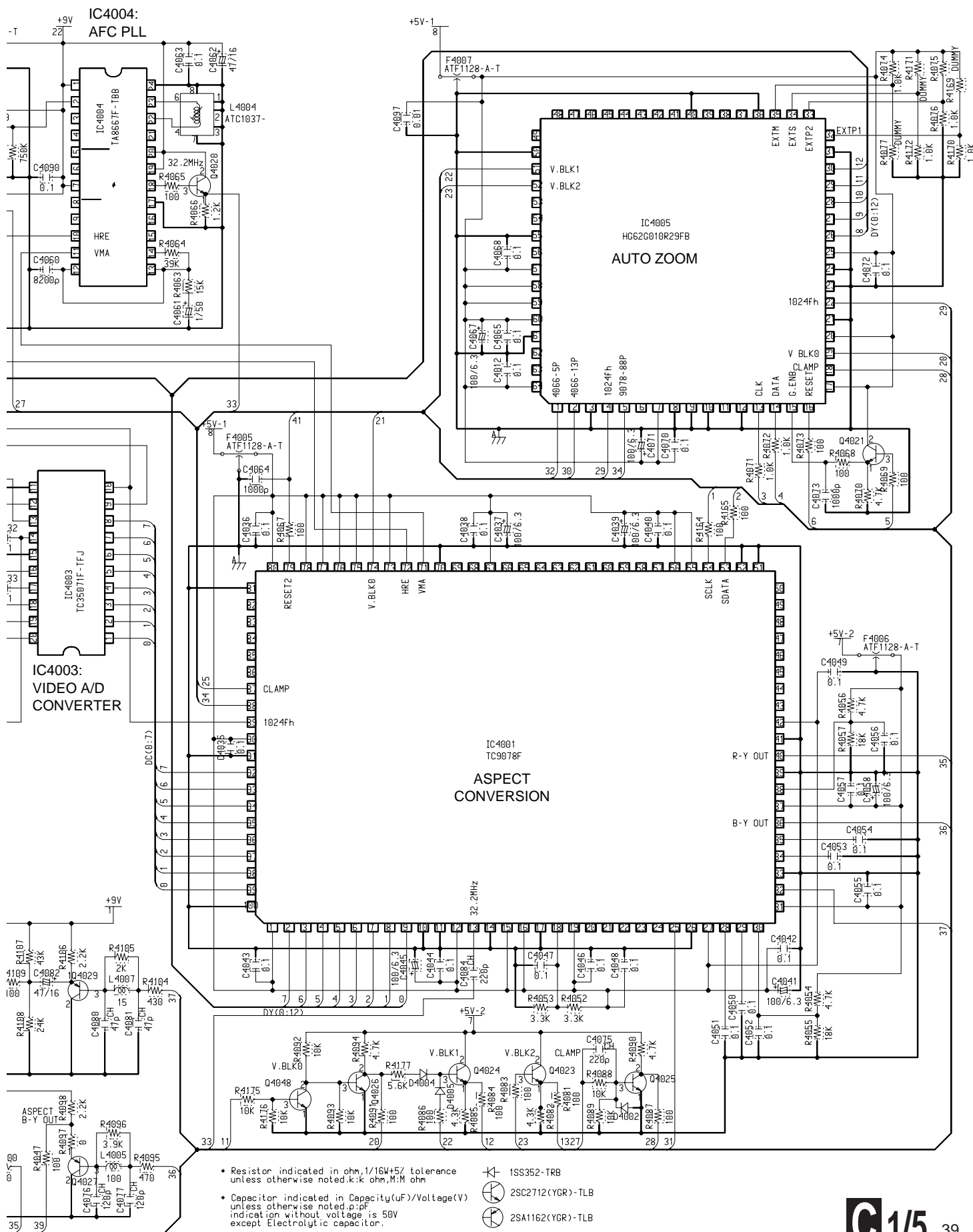
• Capacitor: indicated in Capacity(uF)/Voltage(V) unless otherwise noted. p:pF indication without voltage is 50V except Electrolytic capacitor.

IC5601-IC5604, Q5601:
REGULATOR

3.7 SUB VIDEO ASSY (1/5)




C SUB VIDEO ASSY(1/5) (AWV1718)
• ASPECT BLOCK

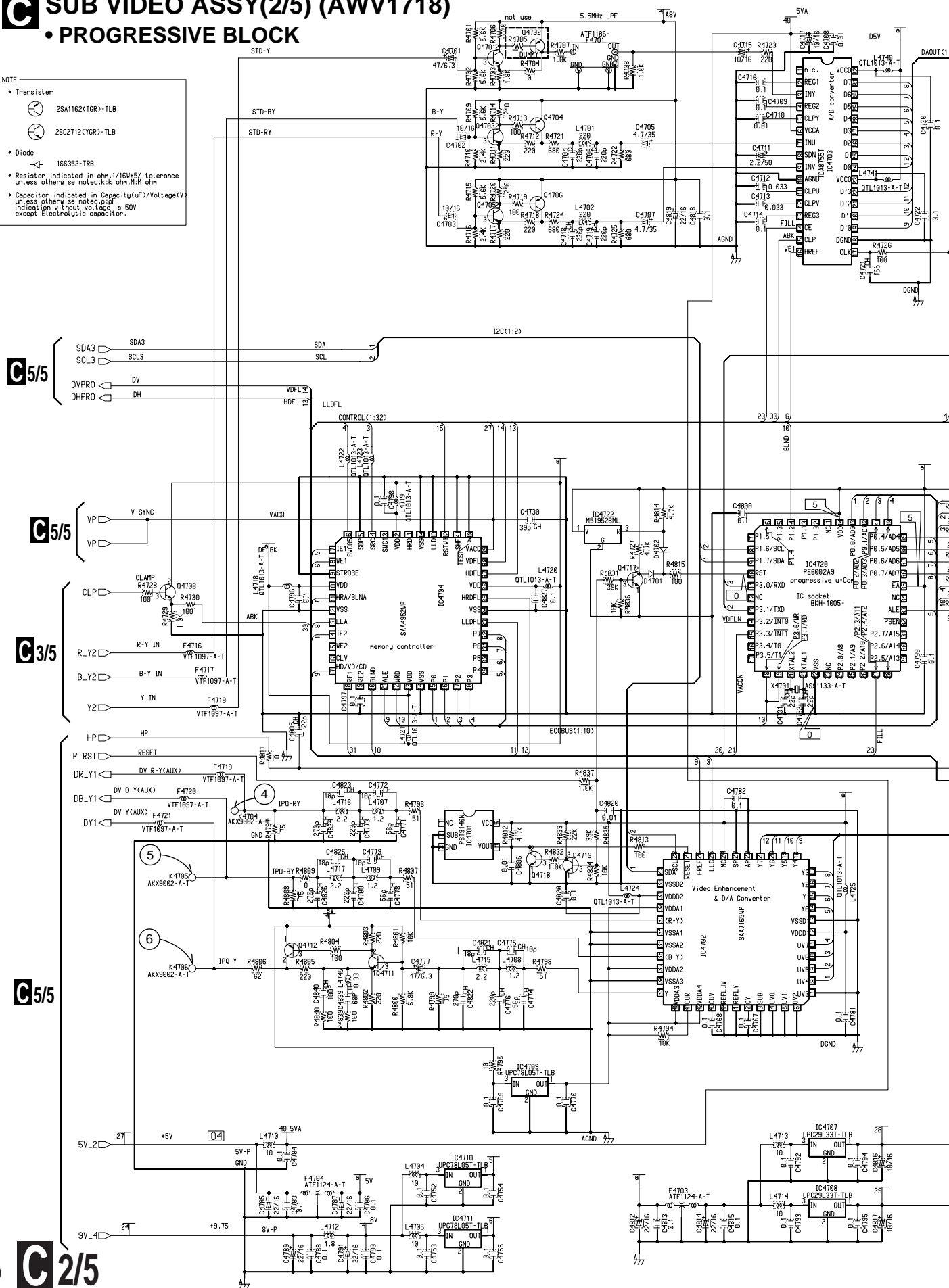


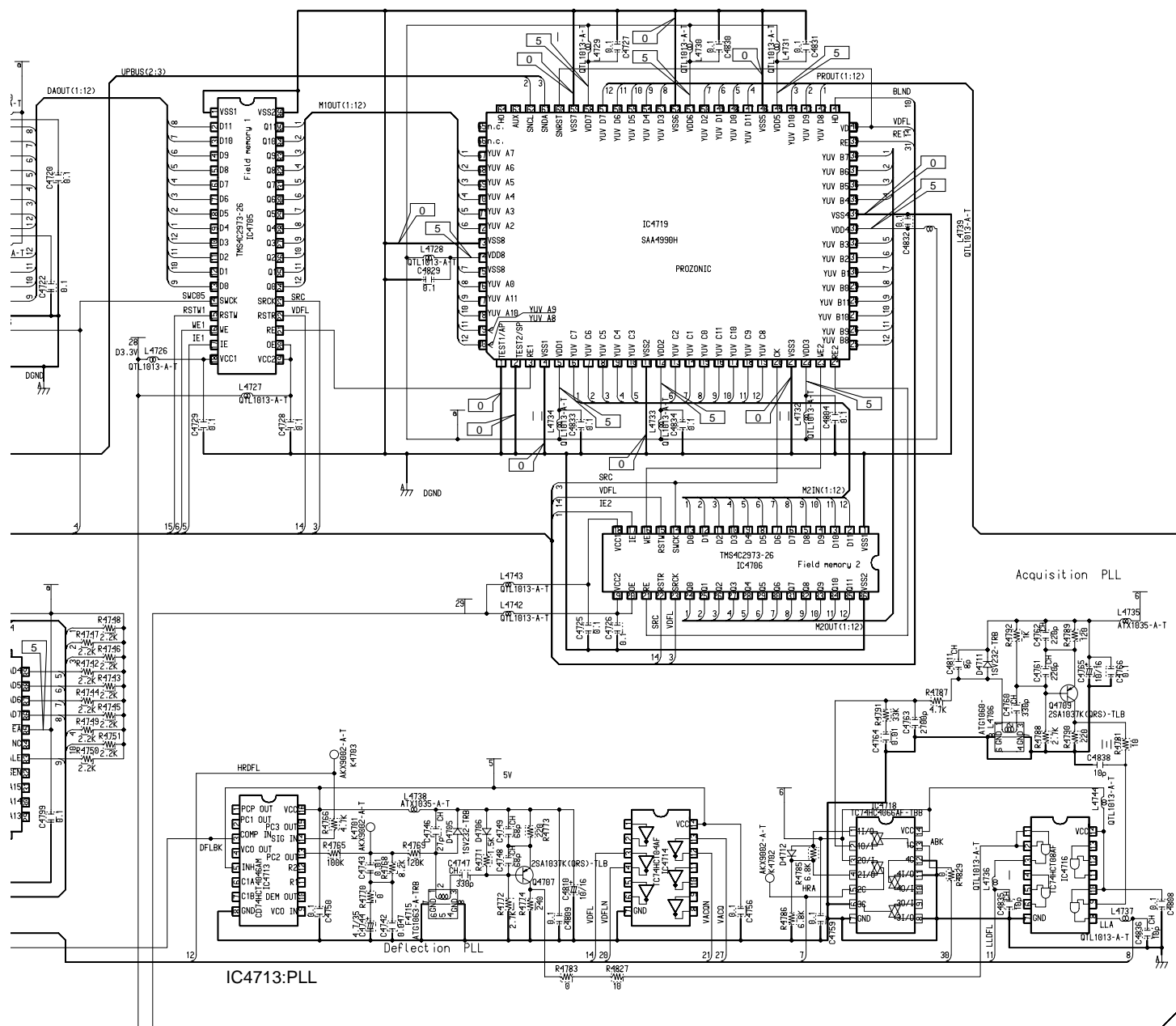


C SUB VIDEO ASSY(2/5) (AWV1718)
• PROGRESSIVE BLOCK

- **PROGRESSIVE BLOCK**

- NOTE
- Transistor
 -  2SA1162(TGR)-TLB
 -  2SC2712(YGR)-TLB
 - Diode
 -  1SS352-TRB
 - Resistor indicated in ohm, 1/16W±5% tolerance unless otherwise noted. k:k ohm, M:M ohm
 - Capacitor indicated in capacitance (pF)/Voltage (V) unless otherwise noted. p: pF indication without voltage is 50V except electrolytic capacitor.





IC4702									
pin	Vol.(V)	pin	Vol.(V)	pin	Vol.(V)	pin	Vol.(V)	pin	Vol.(V)
1	0.0	11	—	21	—	31	5.0	41	1.0
2	2.3	12	—	22	0.0	32	5.0	42	5.0
3	0.0	13	5.0	23	0.0	33	1.0	43	2.3
4	0.0	14	0.0	24	5.0	34	1.0	44	0.0
5	0.0	15	—	25	—	35	0.0		
6	0.0	16	—	26	—	36	1.0		
7	0.0	17	—	27	5.0	37	5.0		
8	—	18	—	28	—	38	0.0		
9	—	19	—	29	—	39	0.8		
10	—	20	—	30	0.0	40	5.0		

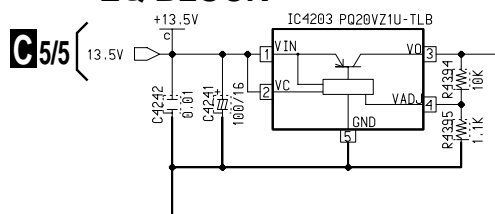
IC4704									
pin	Vol.(V)	pin	Vol.(V)	pin	Vol.(V)	pin	Vol.(V)	pin	Vol.(V)
1	—	11	—	21	—	31	—	41	0.0
2	—	12	0.0	22	—	32	—	42	—
3	—	13	—	23	5.0	33	5.0	43	0.0
4	—	14	—	24	0.0	34	0.0	44	0.0
5	0.0	15	—	25	—	35	—		
6	—	16	—	26	—	36	5.0		
7	—	17	—	27	—	37	—		
8	—	18	—	28	—	38	—		
9	0.0	19	—	29	—	39	—		
10	5.0	20	—	30	—	40	0.0		

IC4703							
pin	Vol.(V)	pin	Vol.(V)	pin	Vol.(V)	pin	Vol.(V)
1	—	9	3.2	17	—	25	—
2	2.7	10	0.0	18	0.0	26	—
3	3.2	11	3.3	19	—	27	—
4	1.7	12	3.3	20	—	28	—
5	3.5	13	1.7	21	—	29	—
6	4.9	14	—	22	—	30	—
7	3.2	15	—	23	5.0	31	—
8	3.3	16	—	24	—	32	5.0




3.9 SUB VIDEO ASSY (3/5)

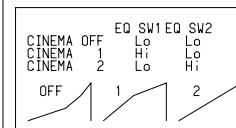
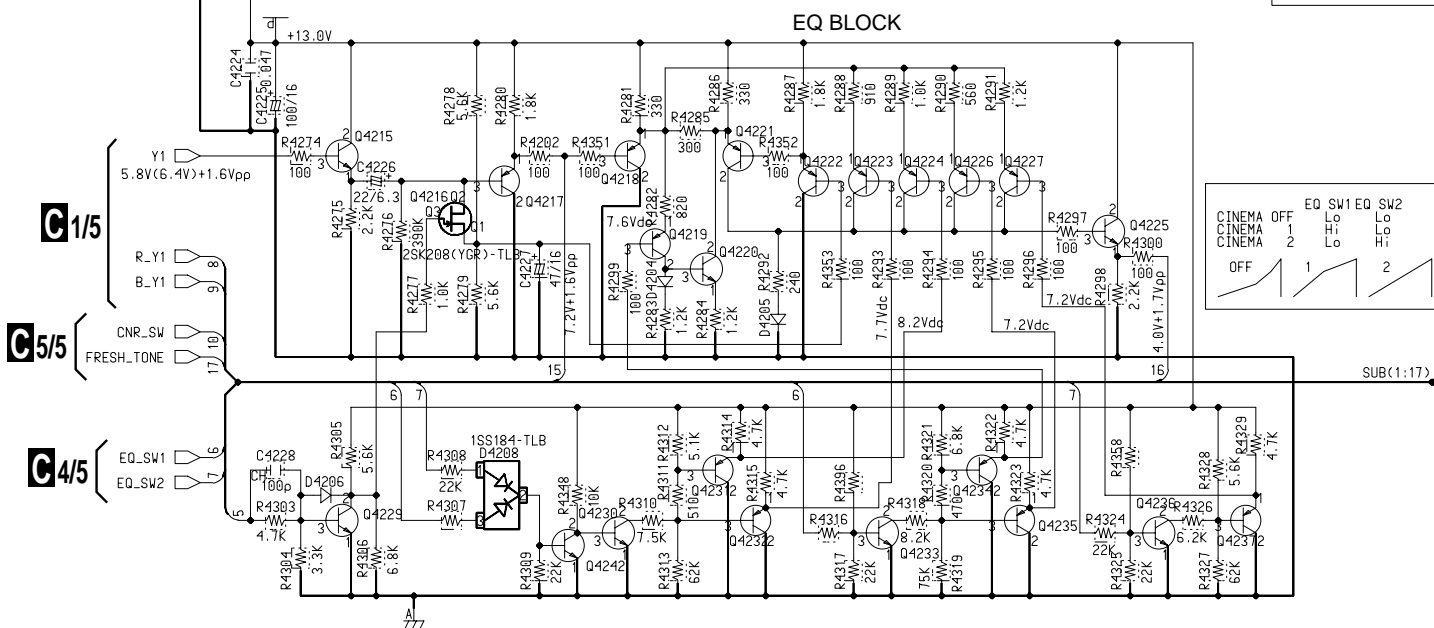
C SUB VIDEO ASSY(3/5) (AWV1718)

- EQ BLOCK

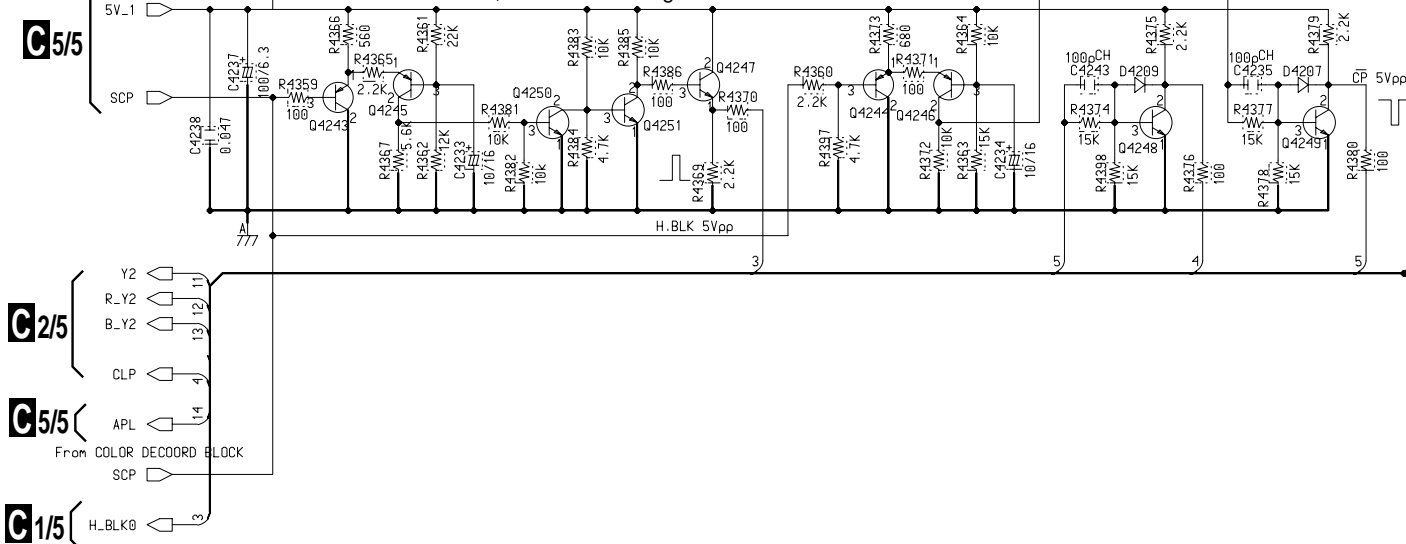


NOTE

- Transister
 -  2SA1
 -  2SC2
- Diode
 -  1SS3
- Resistor indica
unless otherwise
- Capacitor indic
unless otherwise
indication with
except Electro



H. BLOCK, CLAMP PULSE generation circuit



2SC2712(YGR)-TLB

1SS352-TRB

tor indicated in ohm, 1/16W+5% tolerance
s otherwise noted. k:k ohm, M:M ohm

itor indicated in Capacity(uF)/Voltage(V)
s otherwise noted.p:pF
ation without voltage is 50V
t Electrolytic capacitor.

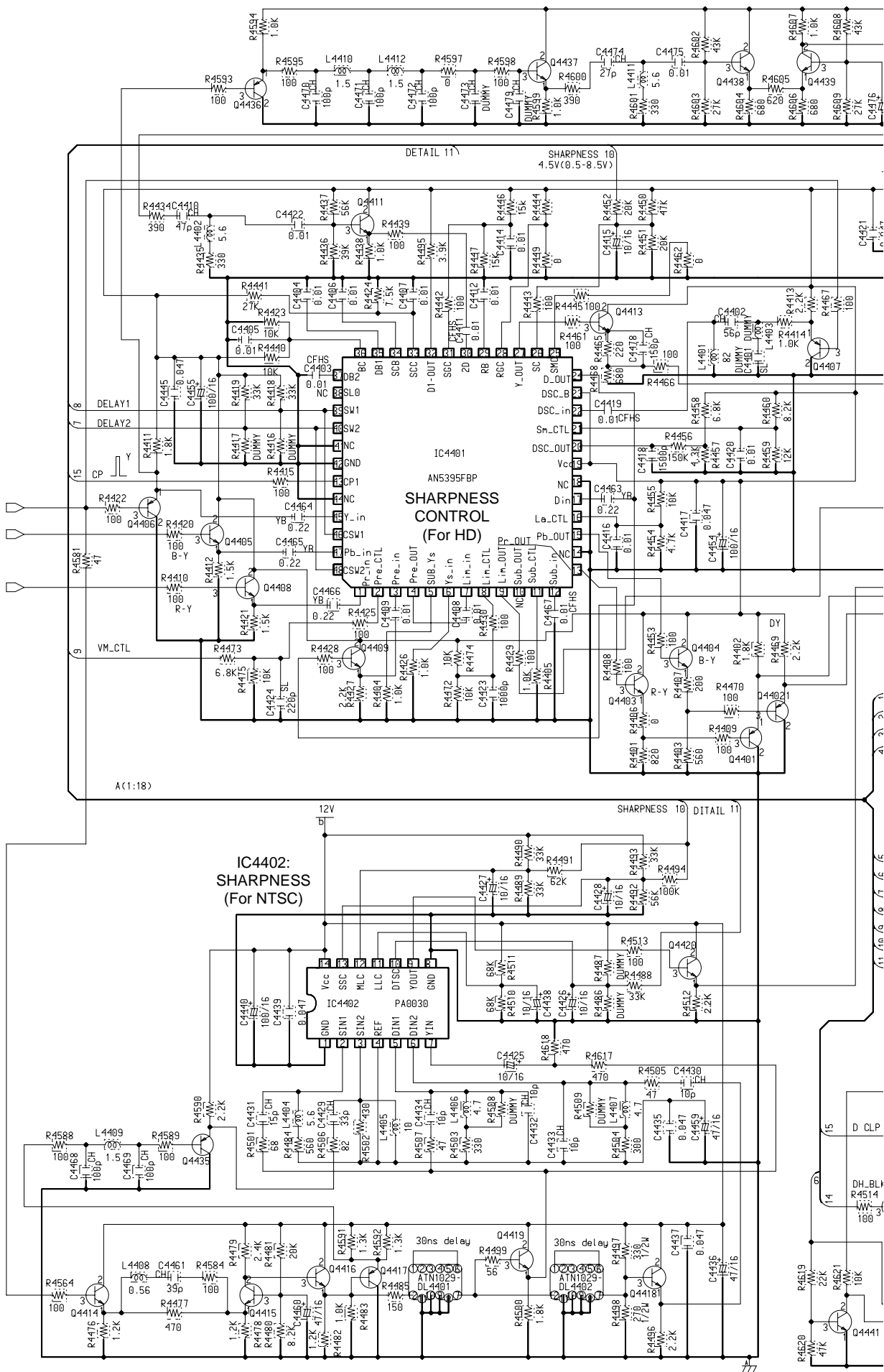


C

D

C5/5

C4/5

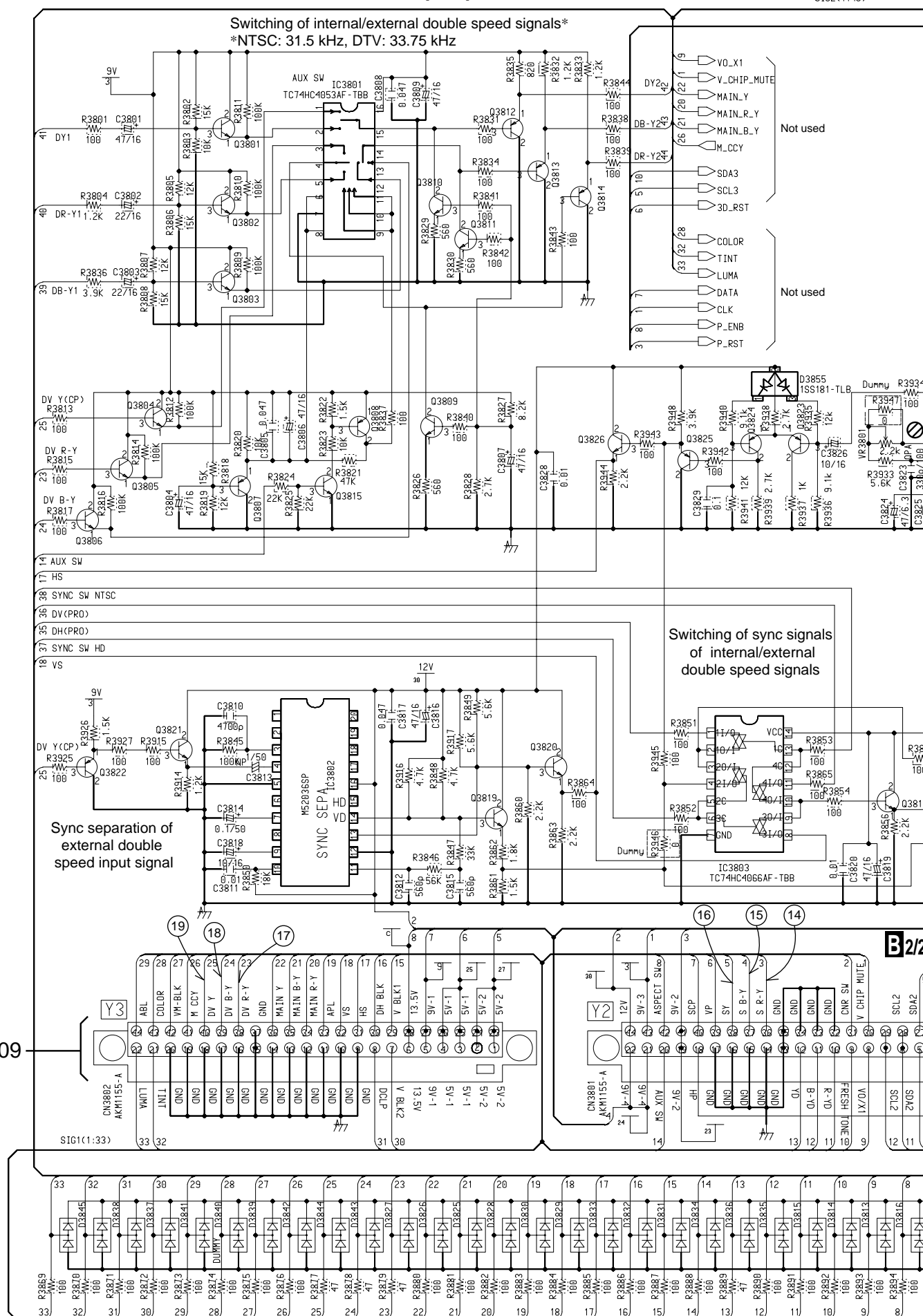


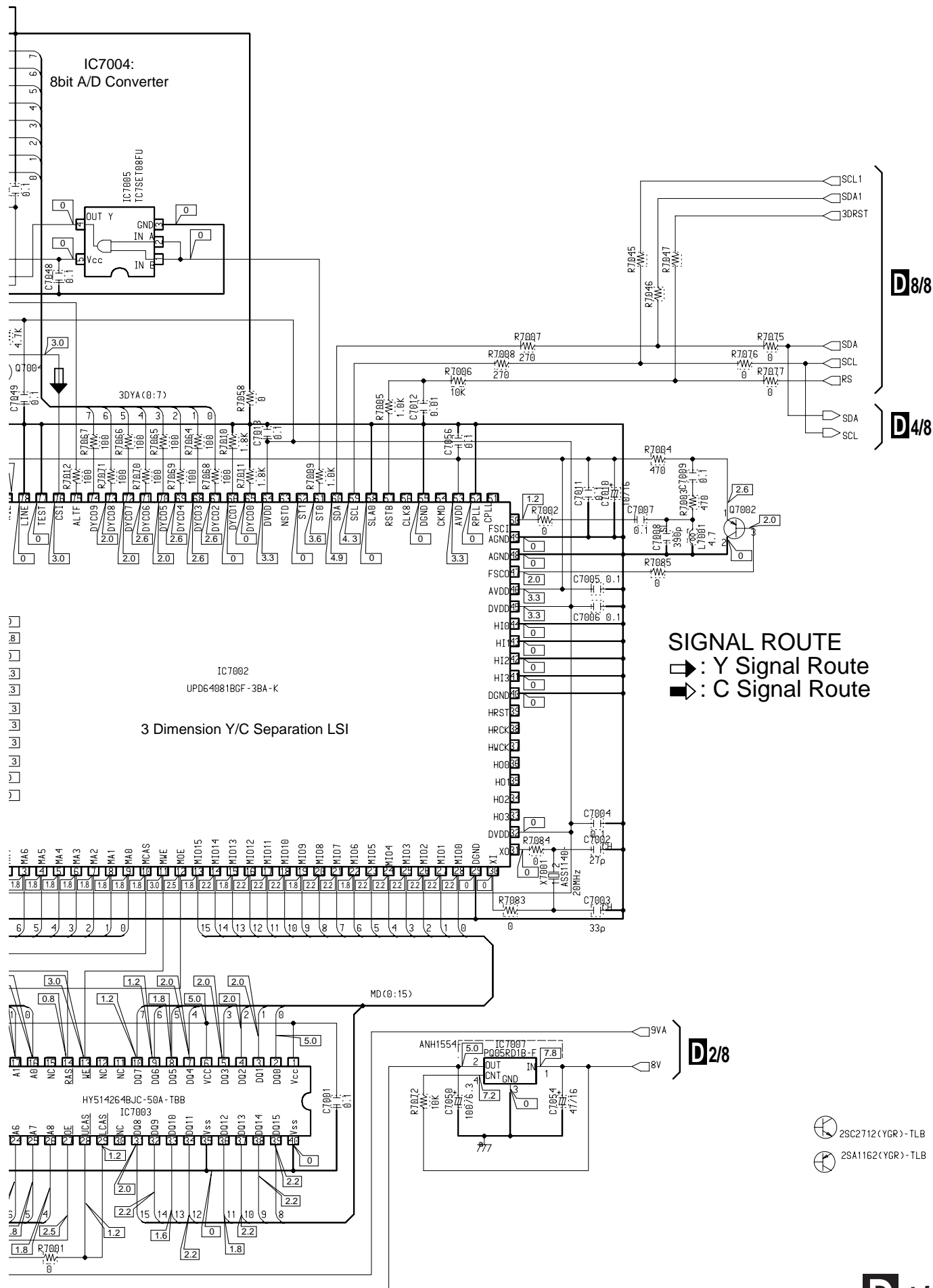
F



C 4/5 45

SIG2(1:48)

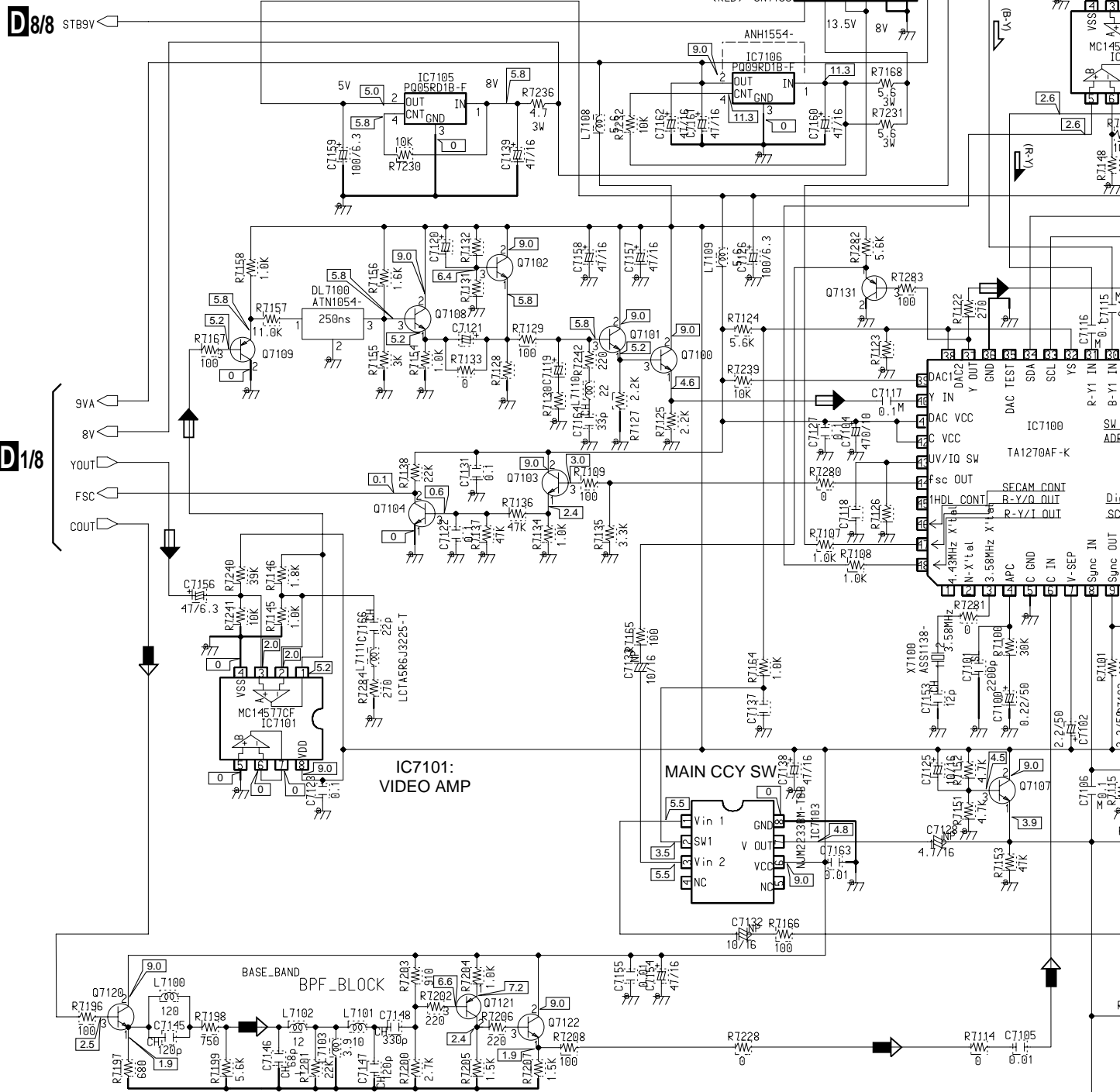




D SIGNAL ASSY(2/8) (AWV1717)

- **COLOR DECORD BLOCK (1)**

T CN204 E3



IC7100 (TA1270AF-K)

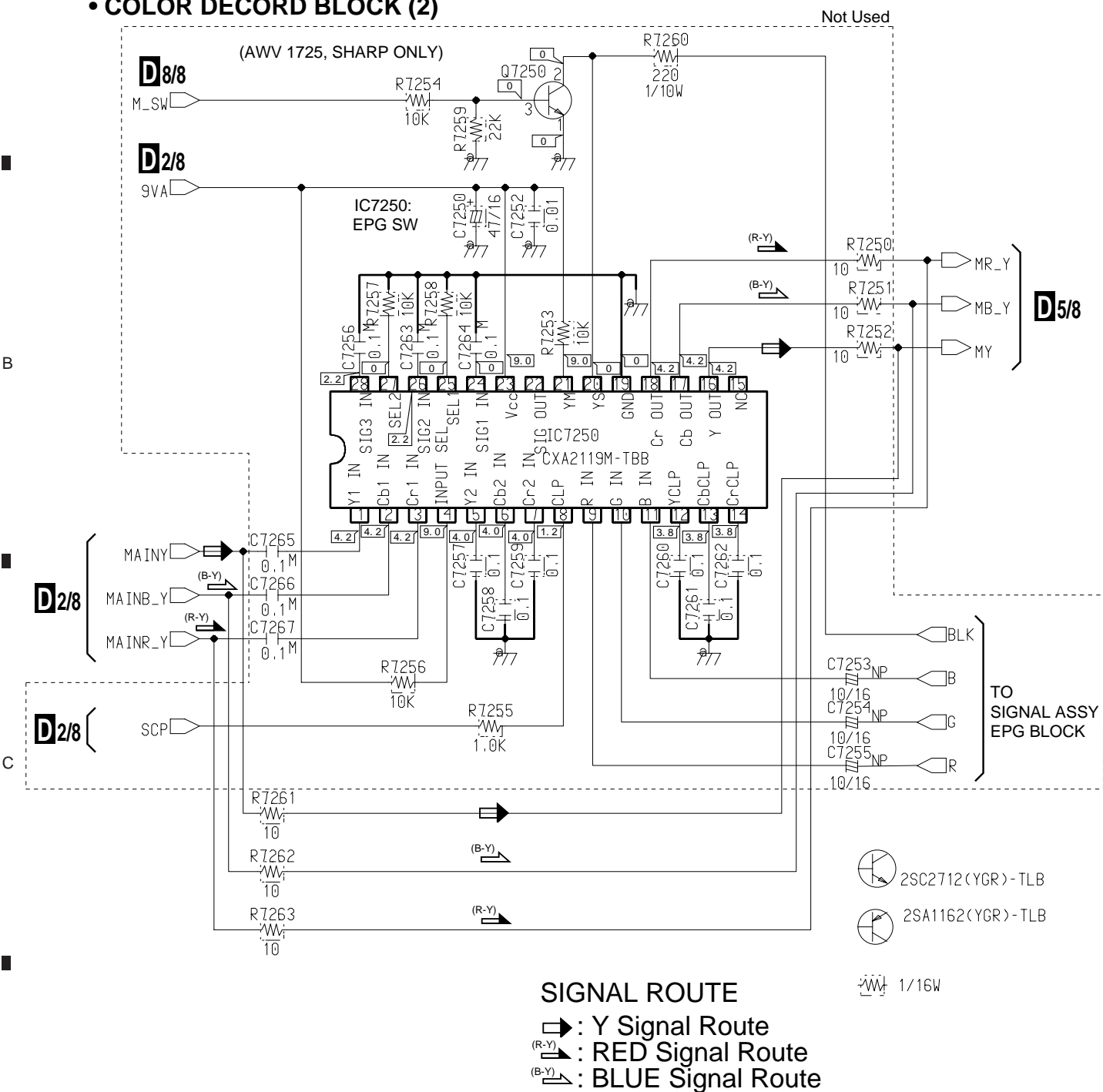
Pin	Voltage(V)	Pin	Voltage(V)	Pin	Voltage(V)	Pin	Voltage(V)	Pin	Voltage(V)	Pin	Voltage(V)
1	4.0	9	8.0	17	0.8	25	2.0	33	3.5	41	5.0
2	4.0	10	7.2	18	8.9	26	2.0	34	3.5	42	5.0
3	4.0	11	0	19	8.9	27	2.0	35	-	43	0.8
4	2.2	12	5.5	20	4.5	28	0	36	0	44	3.0
5	0	13	5.0	21	4.5	29	2.0	37	2.4	45	-
6	-	14	0.2	22	4.5	30	2.0	38	3.6	46	-
7	3.0	15	1.2	23	0	31	2.0	39	0	47	2.8
8	2.6	16	0	24	0	32	3.5	40	2.0	48	2.6



3.14 SIGNAL ASSY (3/8)

D SIGNAL ASSY(3/8) (AWV1717)

- **COLOR DECORD BLOCK (2)**





5



6



7



8



PRO-700HD

A



B



C



D



5



6



7

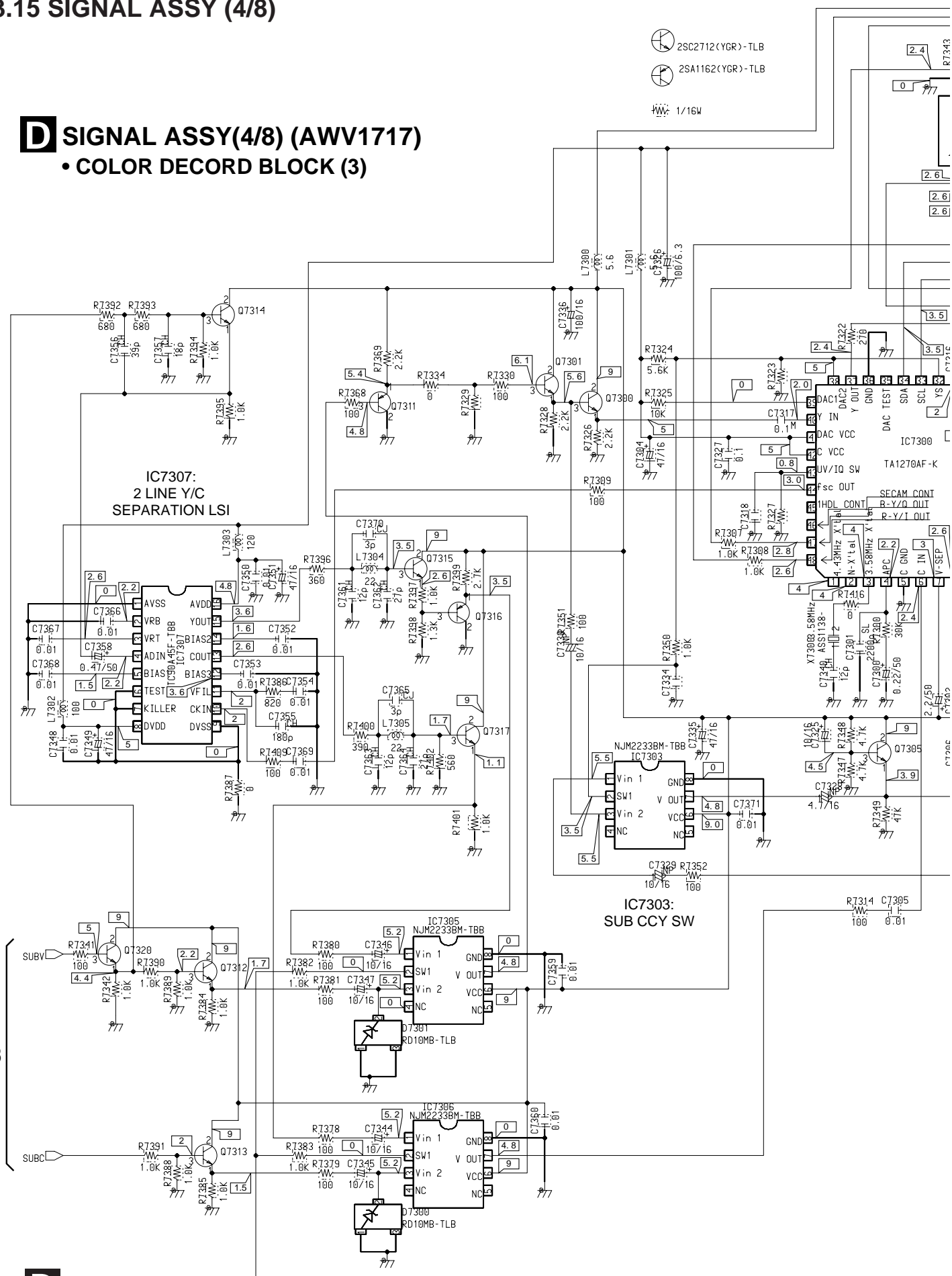


8



3.15 SIGNAL ASSY (4/8)





D SIGNAL ASSY(4/8) (AWV1717)
• COLOR DECORD BLOCK (3)

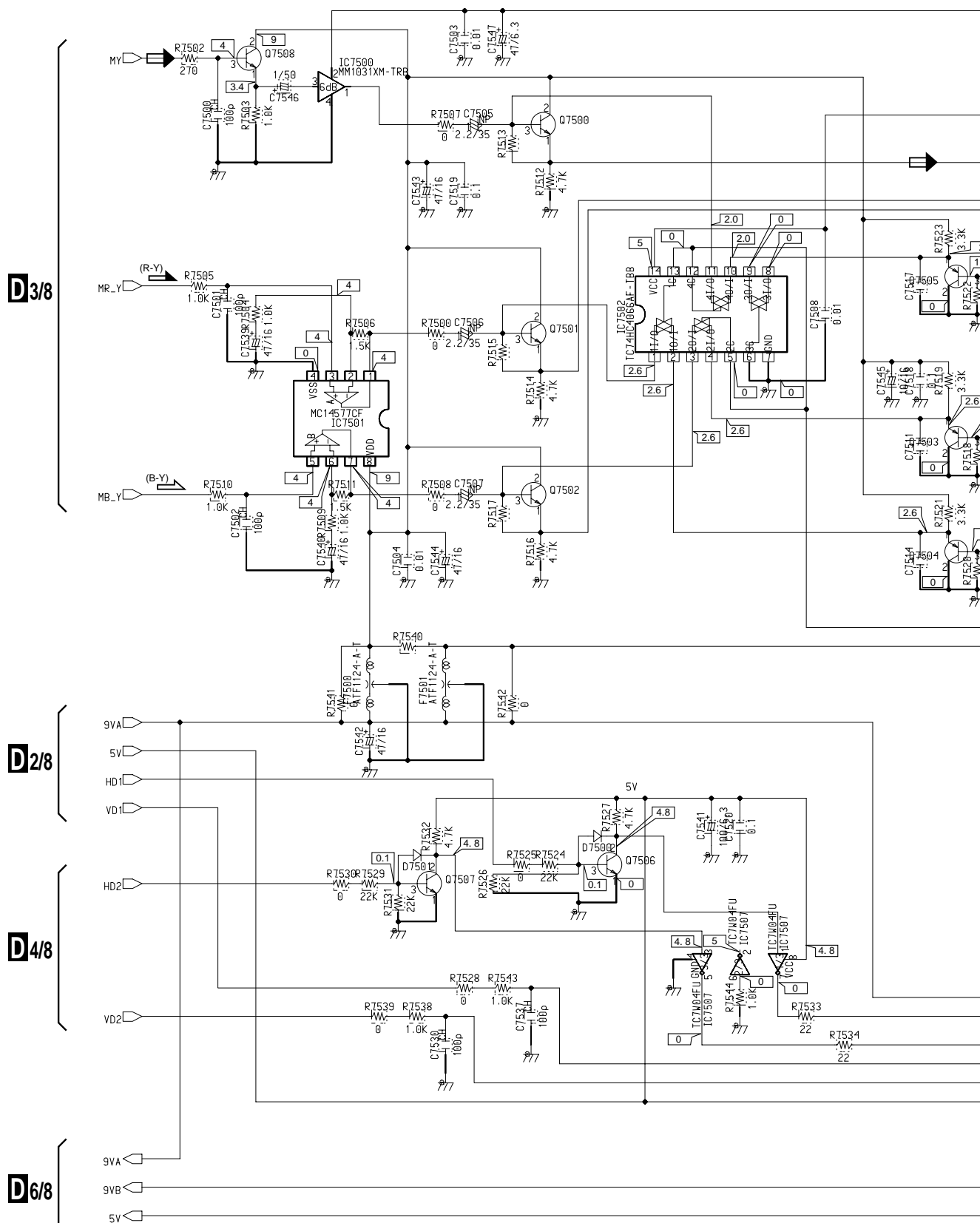




3.16 SIGNAL ASSY (5/8)

D SIGNAL ASSY(5/8) (AWV1717)
• TWIN-P BLOCK (1)

 2SC2712(YGR)-TLB  1
 2SA1162(YGR)-TLB  1





PRO-700HD

3.17 SIGNAL ASSY (6/8)

D SIGNAL ASSY(6/8) (AWV1717)

• TWIN-P BLOCK (2)

D5/8

9VA
9VB
5V

SUBV

SUBR_Y

SUBB_Y

D4/8

D4/8

CrS
CbS
YS

D2/8

CrM
CbM
YM

L7625
L7626
L7627
L7628
L7629
L7630

D4/8

MCCY
SCCY

D8/8

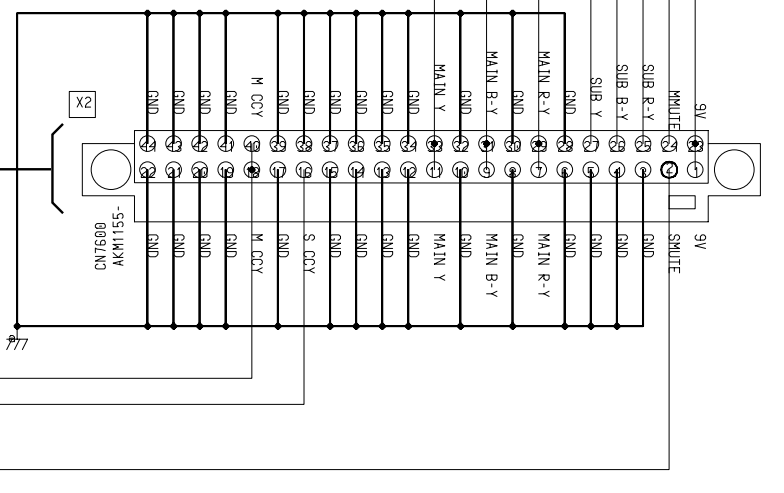
SMUTE
MMUTE

L7633
L7634

58 D6/8

B2/2 CN5607

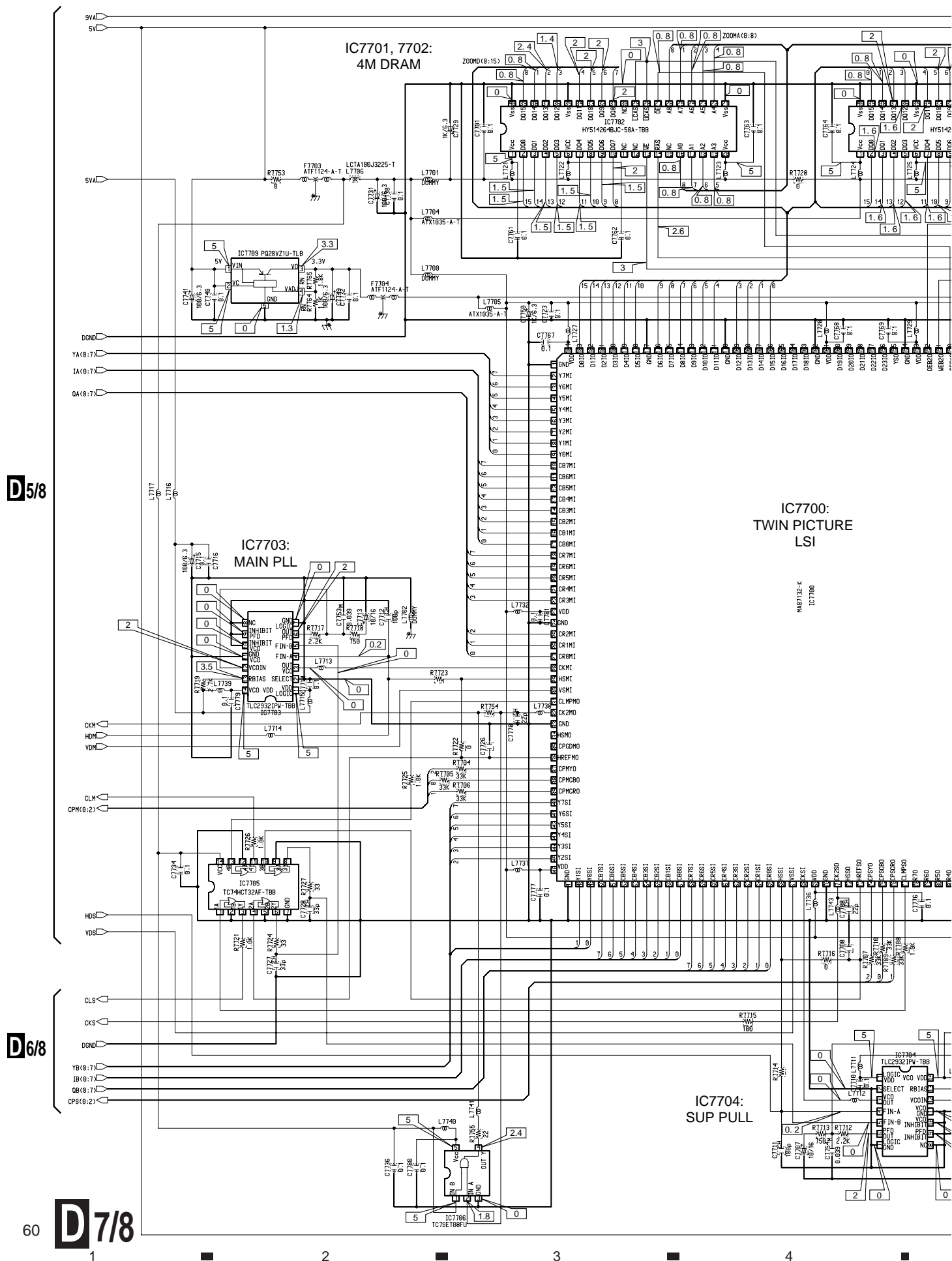
U7





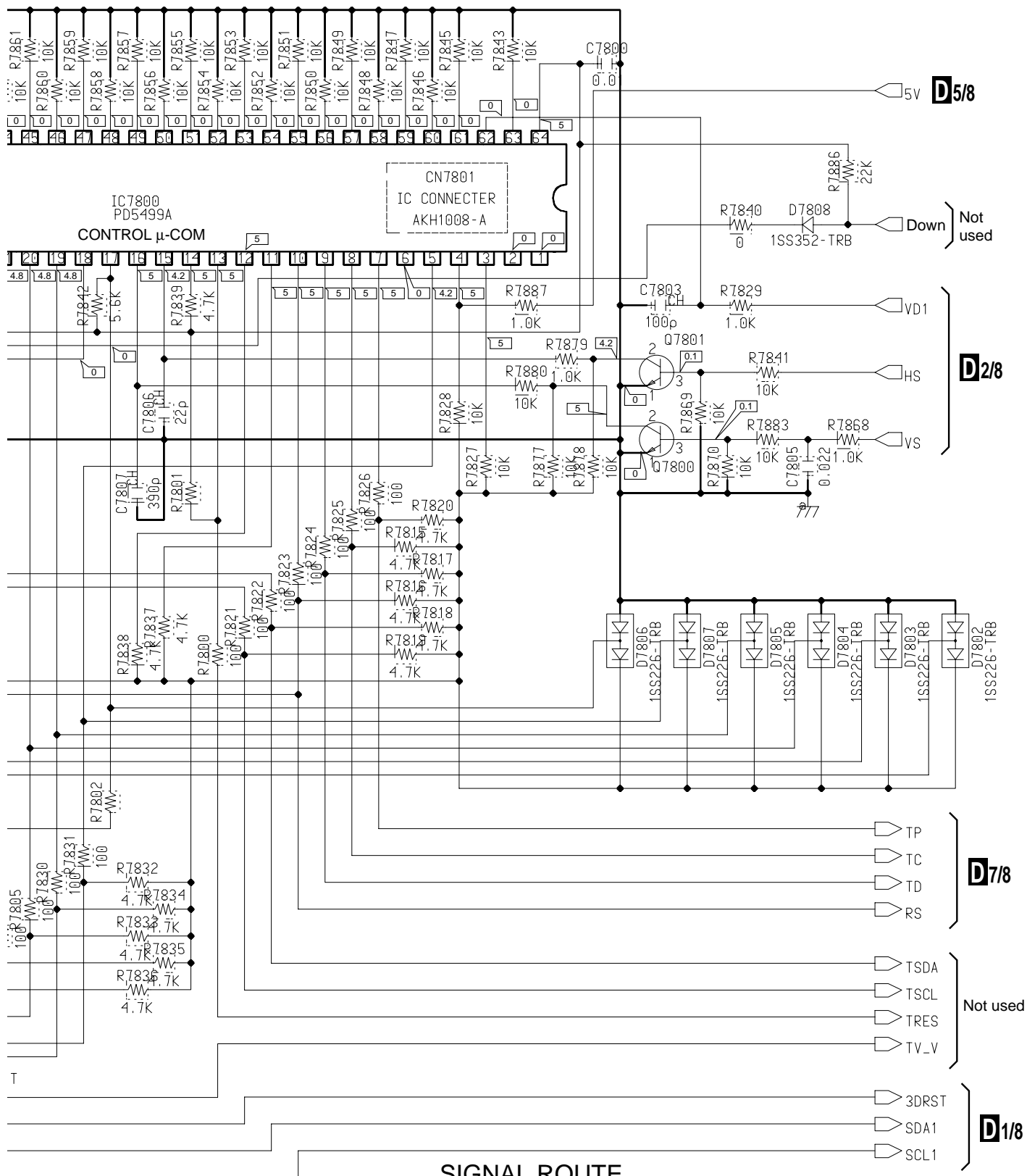
QTL1013-A-T

3.18 SIGNAL ASSY (7/8)



AL ASSY(8/8) (AWV1717)

IM BLOCK



/16W

ITL1013-A-T

PRO-700HD 3.20 AMP ASSY (1/3)

AMP ASSY(1/3) (AWV1712) • CONVERGENCE/V.DEF BLOCK

IC905, Q908, Q909, Q921:
H PULSE CANCEL

A

S1/3
T
CN206
E5

S1/3
CN306
K3

B

A3/3
CN2204
T2

C

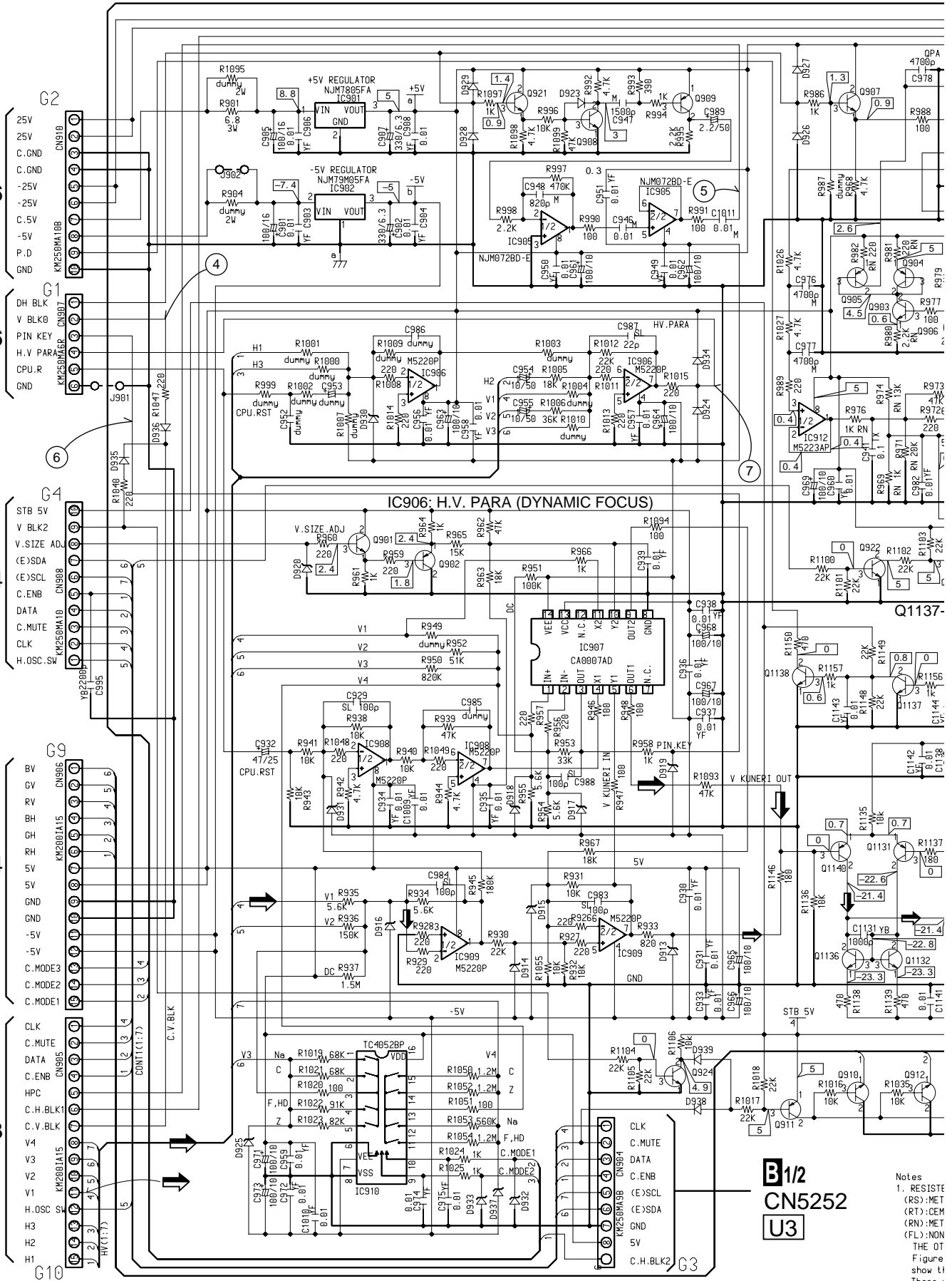
G
CN1804
C2

D

G
CN1803
C1

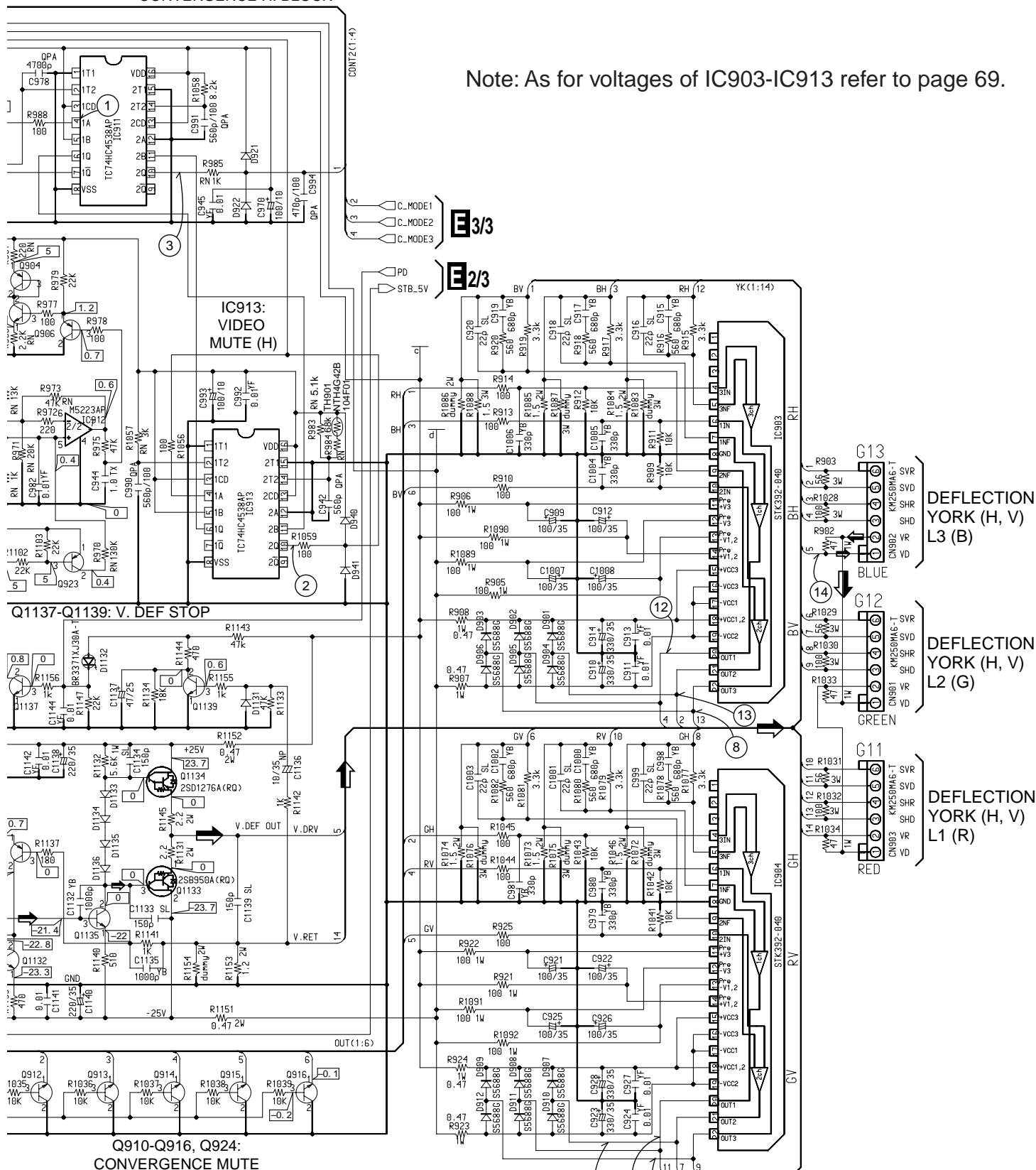
B1/2
CN5252
U3

Notes
1. RESISTE
(RS):MET
(RT):CEM
(RN):MET
(FL):NON
THE OT
Figure
show tl
Those t
K:K, J



IC911, IC912, Q904-Q907, Q922:
CONVERGENCE H. BLOCK

Note: As for voltages of IC903-IC913 refer to page 69.



Notes

1. RESISTORS

(RS): METAL OXIDE FILM RESISTOR

(RT): CEMENT RESISTOR

(RN): METAL FILM RESISTOR

(FL): NON FLAMMABLE RESISTOR

THE OTHERS: CARBON FILM RESISTOR (1/4 W)

Figures in parentheses

show the rated wattage.

Those unspecified ones are of 1/4W.

K: k Ω , M: M Ω , Unspecified ones are of Ω

2. CAPACITORS

(HA): Aluminum electrolytic capacitors

p.p.f. Unspecified ones are of μ F

Capacity/Voltage

Unspecified ones are of 50V

⊗: 2SA933S(RS) ⊗: 2SC1740S(RS)

⊗: 1SS254

⊗: RD12ESB

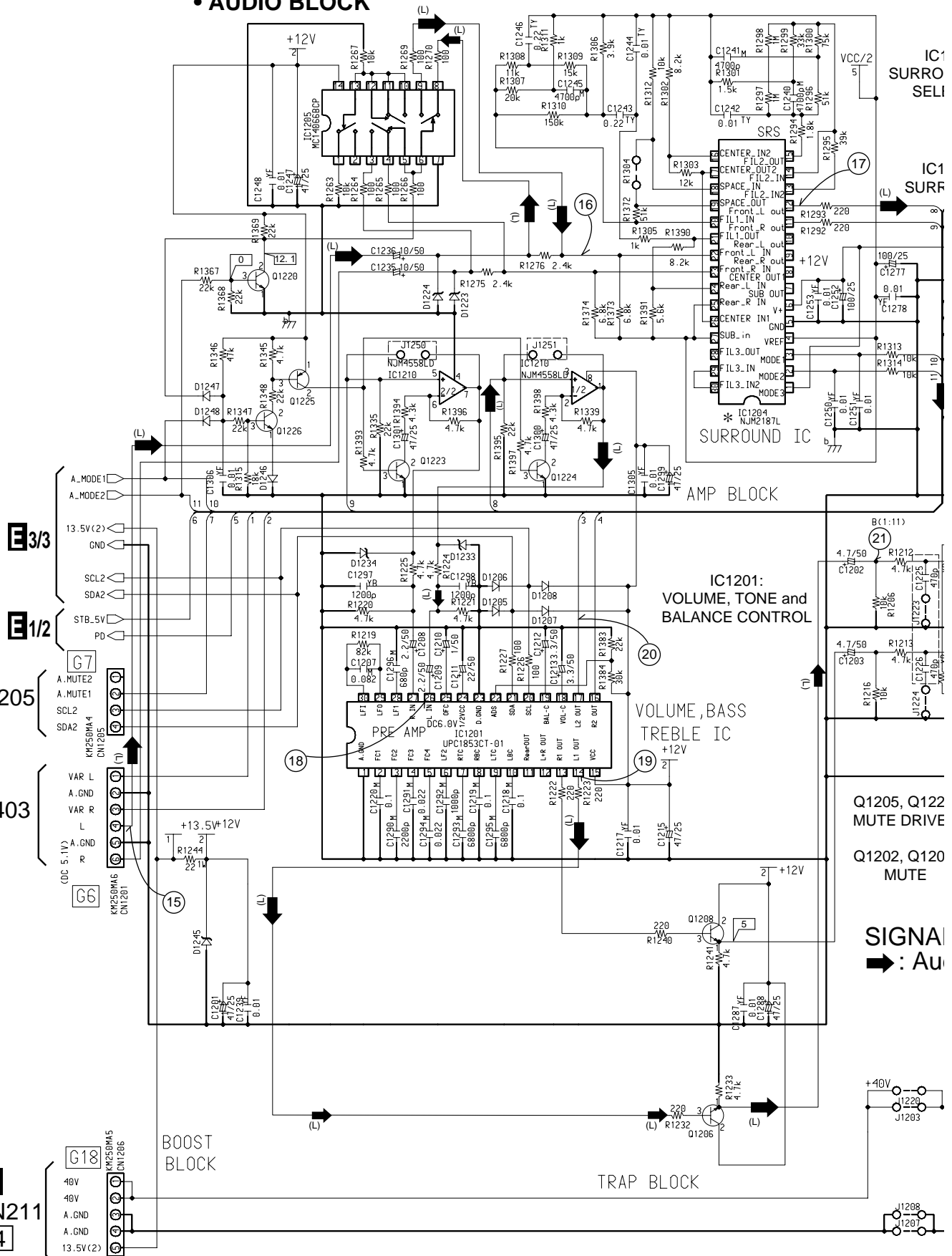
AMP ASSY(2/3) (AWV1712) • AUDIO BLOCK

A

B

C

D



IC1205:
SURROUND GAIN
SELECTOR

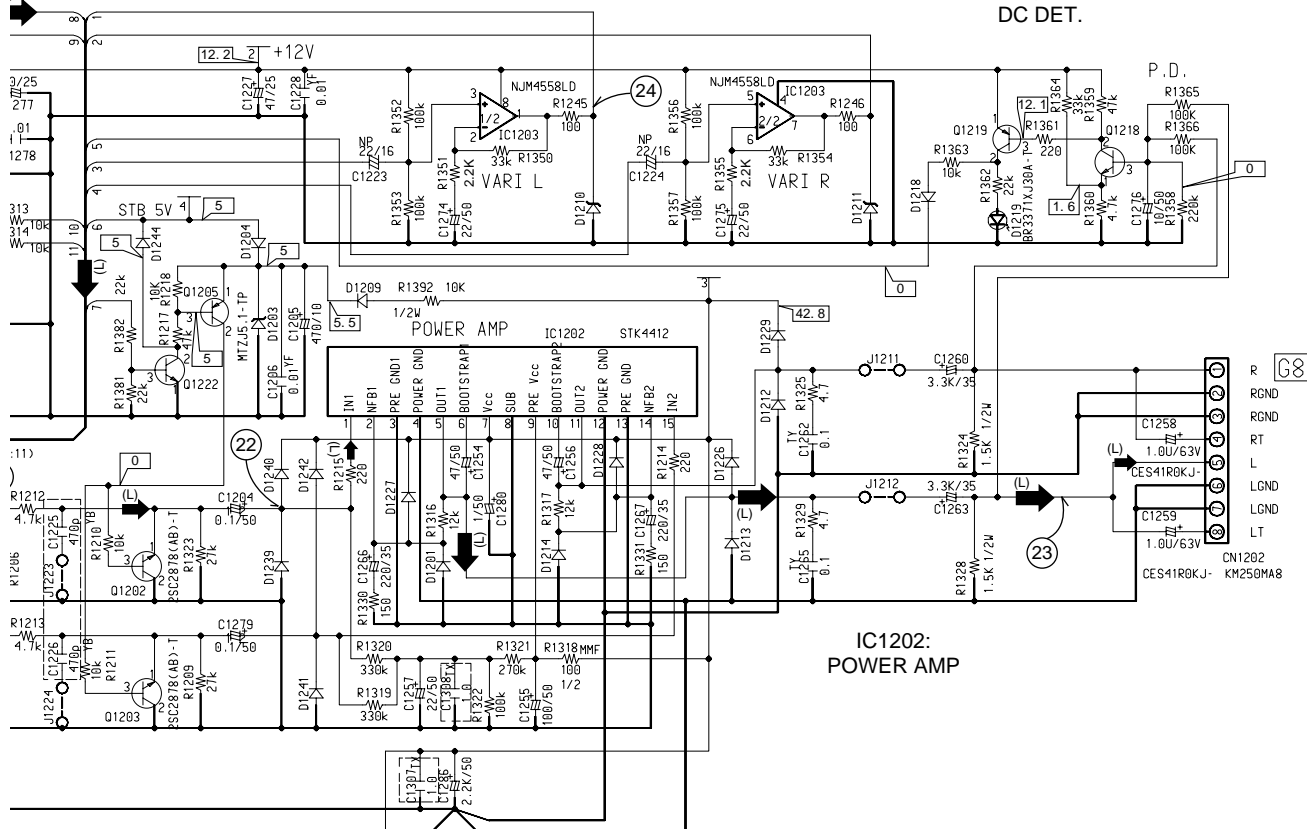
* TruSurround[™]
with SRS (●)

* TruSurround, SRS and the SRS symbol are trademarks of SRS Labs, Inc. TruSurround and SRS are incorporated under a license from SRS Labs, Inc. Patented in the U.S. and selected countries.

IC1204:
SURROUND

IC1203:
VAR OUT AMP

IC1218, Q1219:
DC DET.



Q1201, Q1202:
E DRIVER

Q1203:
MUTE

GNAL ROUTE
▶: Audio Signal Route

1. RESISTORS indicated in 1/2W, 1/4W, 1/8W, 1W, 2W, 5W. tolerance unless otherwise noted K; K Ω, M; M Ω. (F)+1%, (G)+2%, (K)+10%, (M)+20% tolerance.
2. CAPACITORS indicated in capacity (F)/(V) unless otherwise noted pF. indicated without voltage is 50V except electrolytic capacitor.

Note: As for voltages of IC1201-IC1205 refer to page 69.

IC204

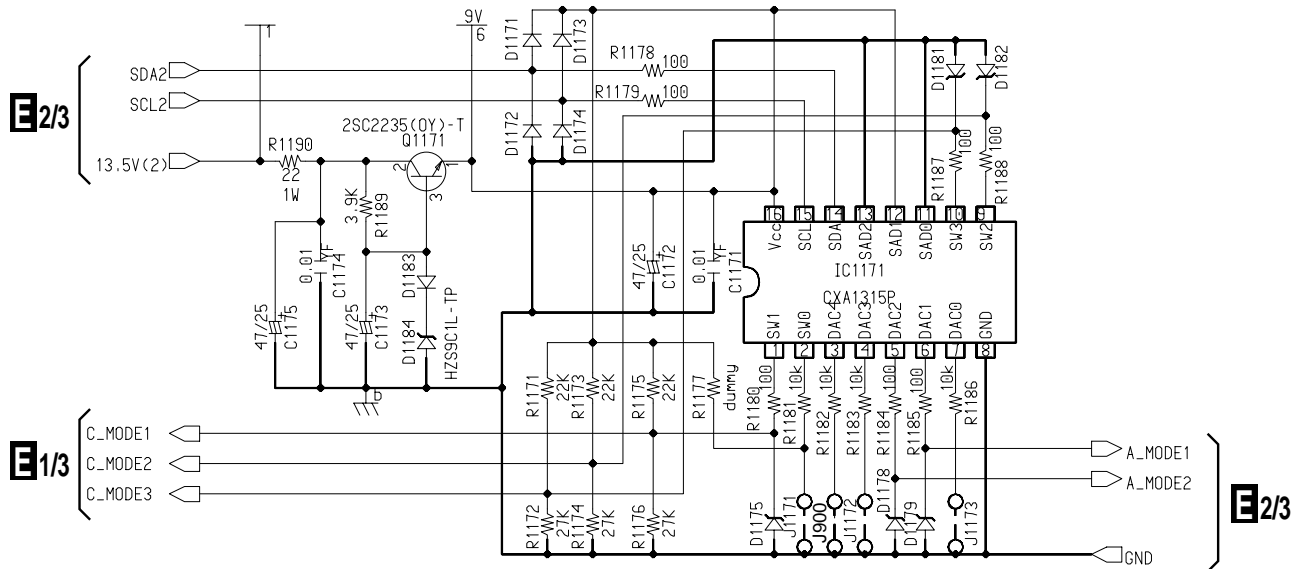
	OFF	SRS	TruSurround
MODE1	LOW	HIGH	HIGH
MODE2	LOW	LOW	HIGH

Q1202, Q1203

	SP MUTE ON	SP MUTE OFF
A.MUTE	HIGH	LOW

- MTZJ15-TP
- 1SS254-TP
- 2SA933S(RS)-T
- 2SC1740S(RS)-T

AMP ASSY(3/3) (AWV1712) • EXP BLOCK



Notes

1. RESISTERS

(RS):METAL OXIDE FILM RESISTER
(RT):CEMENT RESISTER
(RN):METAL FILM RESISTER
(FL):NON FLAMMABLE RESISTER
THE OTHERS:CARBONFILM RESISTER (1/4 W)
Figures in pharenttheses
show the rated wattage.
Those unspecified ones are of 1/4W.
K:KΩ ,M:MΩ ,Unspecified ones are of Ω

2. CAPACITORS

(HA):Aluminium electrolytic capacitors
p:pF,Unspecified ones are of uF
Capacity/Voltage
Unspecified ones are of 50V



: 2SA933S(RS)



: 2SC1740S(RS)



: 1S5254



: RD12ESB

E1/3 AMP ASSY (1/3)

IC903 (STK392-040)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	-21.8	12	-23.3
2	-21.8	13	-22.8
3	-22.3	14	22.7
4	0	15	23.5
5	0	16	-23.8
6	0.4	17	-23.8
7	0.4	18	23.5
8	0	19	-23.8
9	0	20	0.2
10	0	21	0.1
11	23.2	22	0

IC904 (STK392-040)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	-21.7	12	-23.3
2	-21.7	13	-22.8
3	-22.2	14	22.7
4	0.1	15	23.6
5	0.1	16	-23.6
6	0	17	-23.6
7	0	18	23.6
8	0	19	-23.6
9	0	20	0.1
10	0	21	0.1
11	23.2	22	0

IC905 (NJM072BD)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	5	0
2	0	6	0
3	0	7	0
4	-5.0	8	5.0

IC907 (CA0007AD)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	8	0
2	0	9	0
3	1.0	10	0
4	0	11	0
5	0	12	0.1
6	0	13	5.0
7	0	14	-5.0

IC906 (M5220P)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	-4.1	5	0
2	0.1	6	0
3	0	7	0
4	-5.0	8	5.0

IC908 (M5220P)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	5	0
2	0	6	0
3	0	7	0
4	-5.0	8	5.0

IC909 (M5220P)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	5	0
2	0	6	0
3	0	7	0
4	-5.0	8	5.0

IC910 (TC4052BP)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	9	5.0
2	0	10	5.0
3	0	11	0
4	0	12	-1.0
5	0	13	0
6	0	14	-0.9
7	-5.0	15	-0.9
8	0	16	5.0

IC911 (TC74HC4538AP)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	9	4.4
2	2.6	10	0.7
3	5.0	11	0.3
4	0.9	12	0
5	5.0	13	5.0
6	4.7	14	4.2
7	0.4	15	0
8	0	16	5.0

IC912 (M5223AP)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0.4	5	0.4
2	0.4	6	0.4
3	0.4	7	0.6
4	0	8	5.0

IC913 (TC74HC4538AP)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	9	4.7
2	4.8	10	0.4
3	5.0	11	4.7
4	0.4	12	0
5	5.0	13	5.0
6	0.3	14	4.5
7	4.8	15	0
8	0	16	5.0

E2/3 AMP ASSY (2/3)

IC1201 (μPC1201)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	11	6.2	21	-
2	6.2	12	6.2	22	5.2
3	6.2	13	6.2	23	0
4	6.2	14	6.2	24	6.1
5	6.2	15	12.2	25	6.2
6	6.2	16	6.2	26	6.2
7	6.2	17	6.2	27	6.2
8	6.2	18	6.2	28	6.2
9	6.2	19	4.7	29	6.2
10	6.2	20	-	30	6.2

IC1202 (STK4412)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	10.9	9	42.1
2	10.6	10	9.6
3	0	11	20.8
4	0	12	0
5	20.8	13	0
6	9.6	14	10.6
7	42.8	15	10.9
8	0		

IC1203 (NJM4558LD)

Pin No.	Voltage [V]
1	6.1
2	6.1
3	6.1
4	0
5	6.1
6	6.1
7	6.1
8	12.1

IC1205 (MC14066BCP)

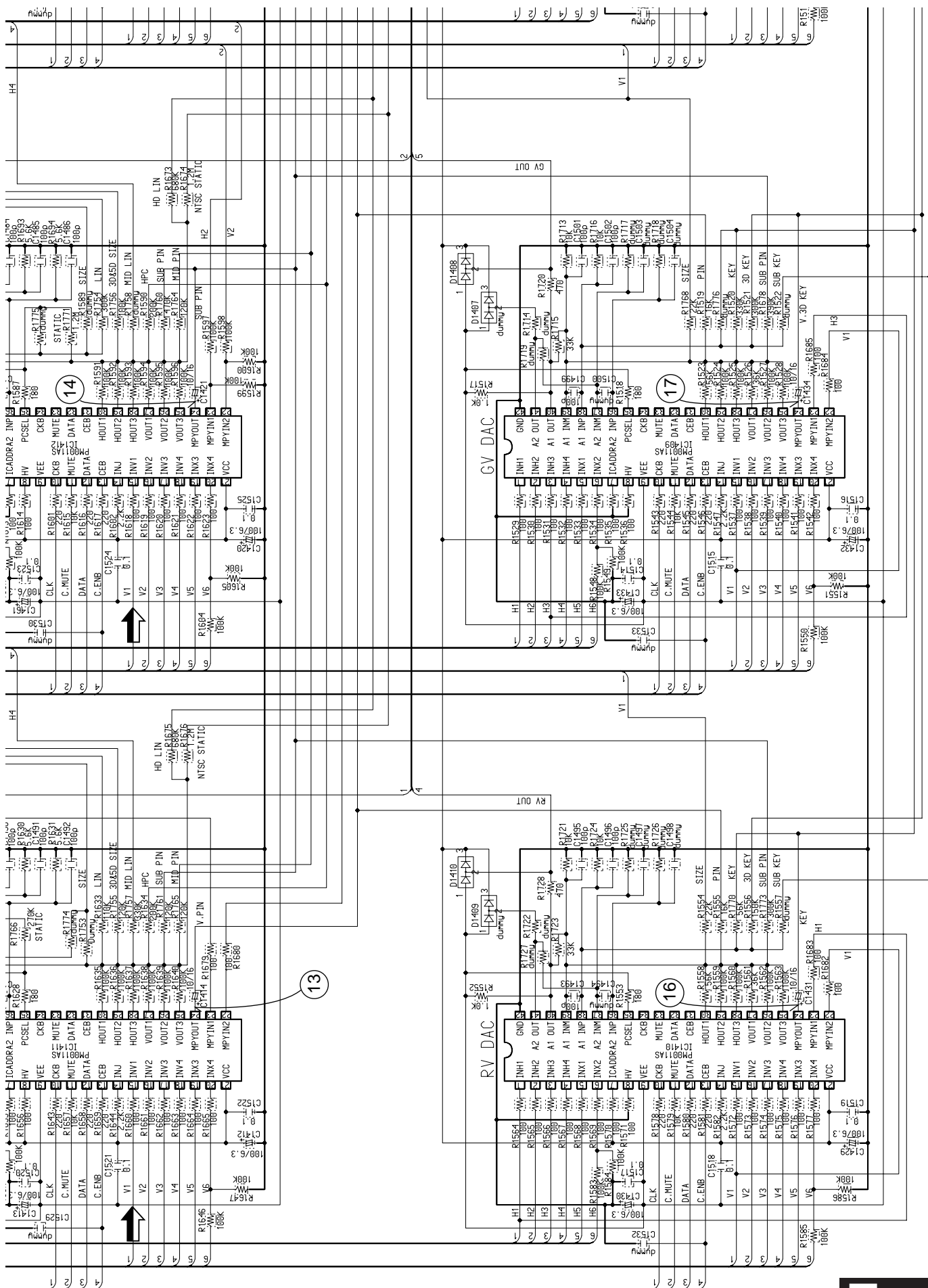
Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	8	6.1
2	-	9	6.1
3	6.1	10	0
4	6.1	11	0
5	12.1	12	0
6	12.1	13	0
7	0	14	12.1

IC1204 (NJM2187L)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	12.2	11	6.1	21	6.1
2	0	12	6.1	22	6.1
3	0	13	6.1	23	6.1
4	6.1	14	6.1	24	6.1
5	0	15	6.1	25	6.1
6	12.2	16	6.1	26	6.1
7	6.1	17	6.1	27	6.1
8	6.1	18	6.1	28	6.1
9	6.1	19	6.1	29	6.1
10	6.1	20	6.1	30	6.1

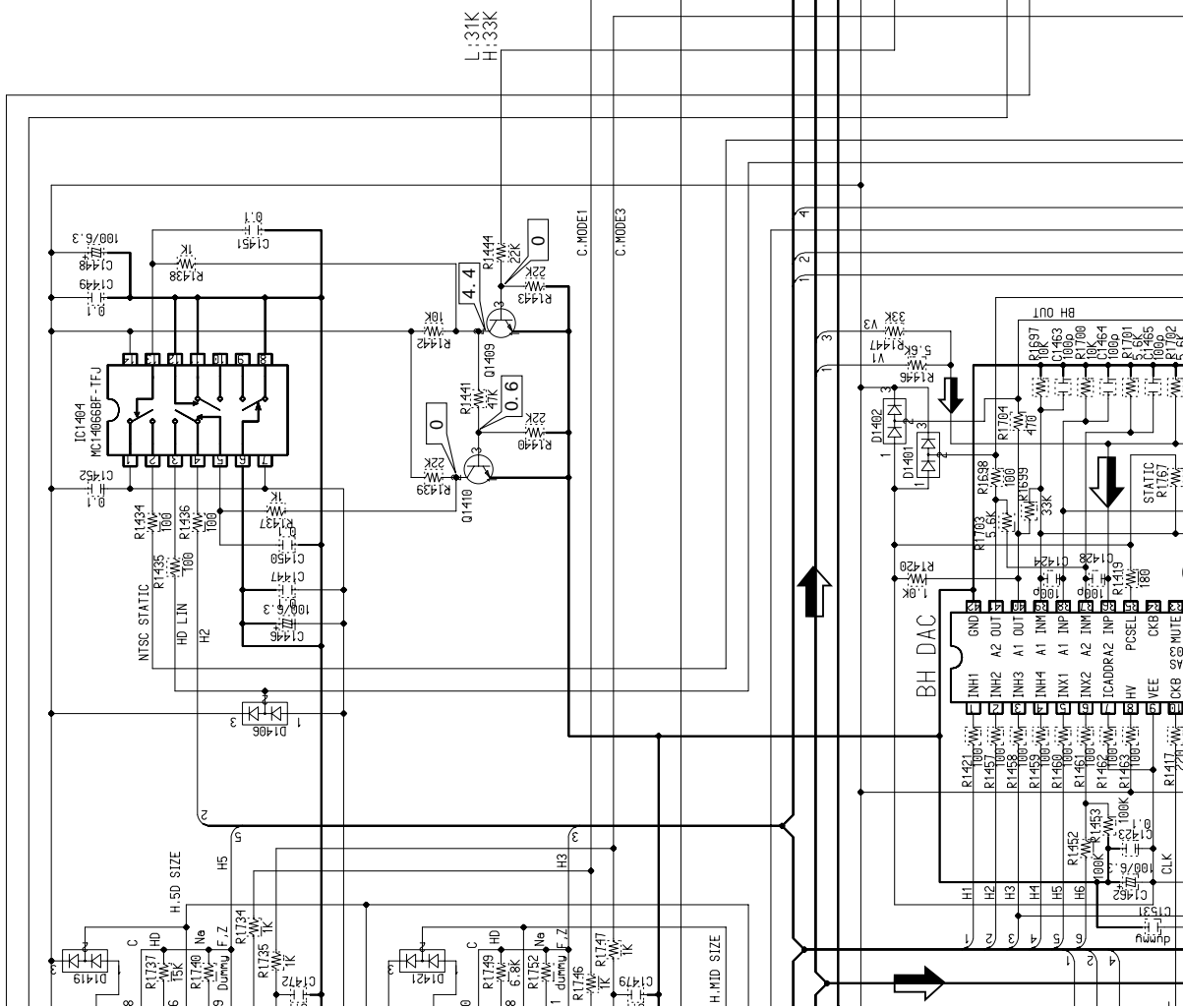
F

F-a F-b



F-a

AWV6333)



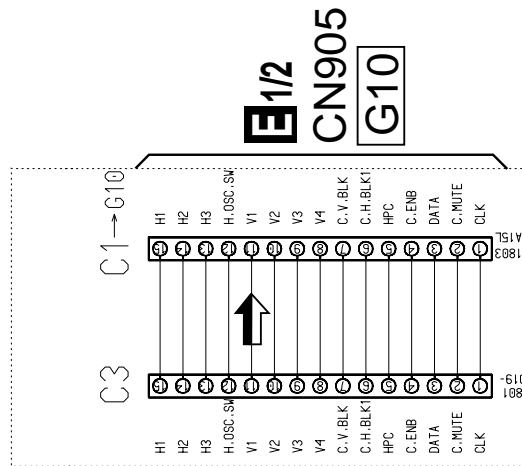
Notes

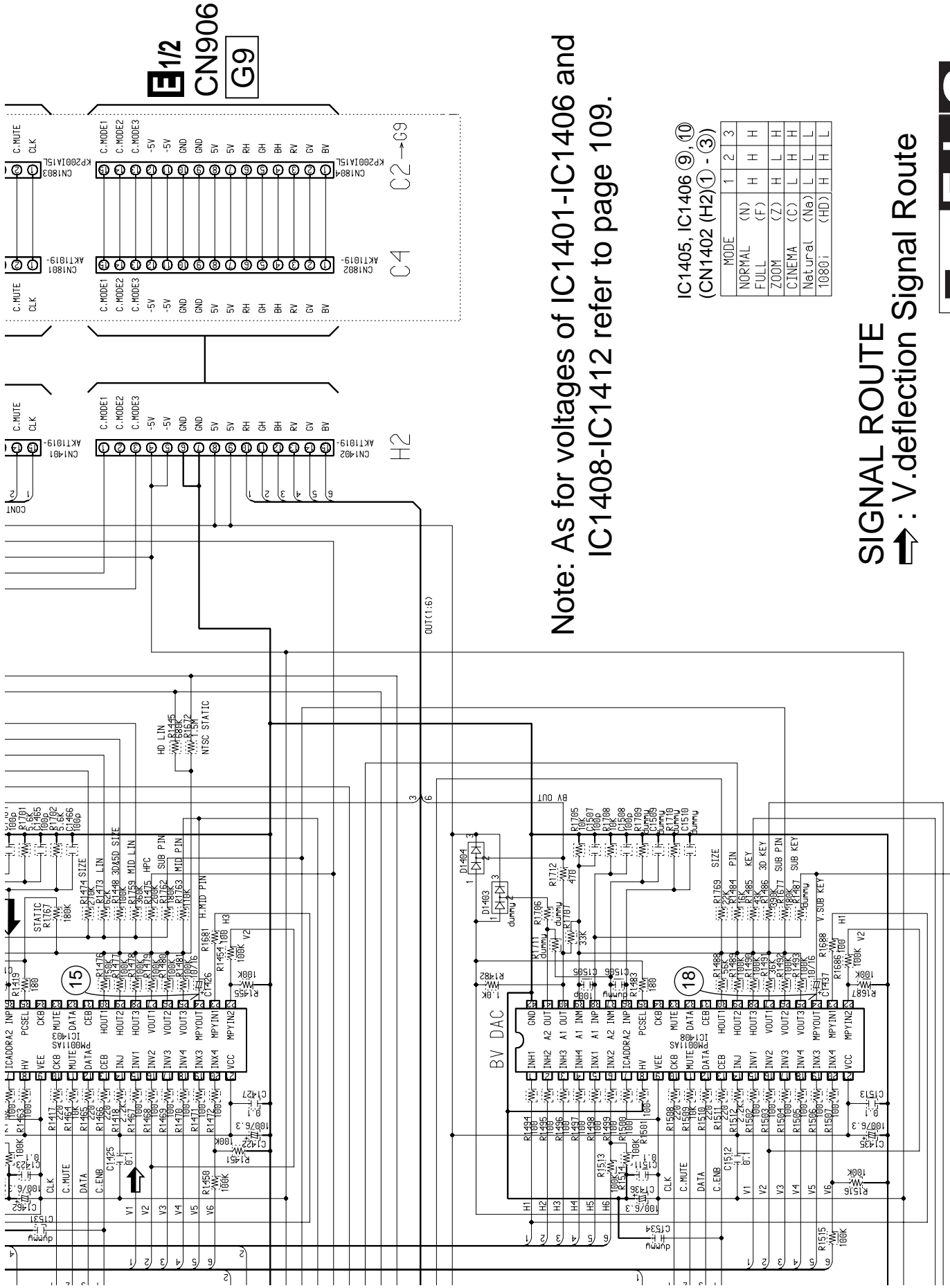
- 1. RESISTORS
(RS):METAL OXIDE FILM RESISTOR (HA):Aluminium electrolytic capacitors
(RT):CEMENT RESISTOR p.p.f.,Unspecified ones are of μ F
(RV):METAL FILM RESISTOR Capacity/Voltage
(FL):NON FLAMMABLE RESISTOR Unspecified ones are of 50V
THE OTHERS:FIXED CHIP RESISTORS (1/16 W)
Figures in parentheses show the rated wattage.
Those unspecified ones are of 1/4W.
K:K Ω , M:M Ω ,Unspecified ones are of Ω
- 2. CAPACITORS
(HA):Aluminium electrolytic capacitors
(RT):CEMENT RESISTOR p.p.f.,Unspecified ones are of μ F
(RV):METAL FILM RESISTOR Capacity/Voltage
(FL):NON FLAMMABLE RESISTOR Unspecified ones are of 50V
THE OTHERS:FIXED CHIP RESISTORS (1/16 W)
Figures in parentheses show the rated wattage.
Those unspecified ones are of 1/4W.
K:K Ω , M:M Ω ,Unspecified ones are of Ω
- 3 TRANSISTOR,DIODE
(unless particularly specified)

\oplus : 2SC2712(YGR)-TLB \oplus : 2SA1162(YGR)-TLB

\boxplus : 1SS226-TRB

G CONNECTOR ASSY (AWZ6335)





Note: As for voltages of IC1401-IC1406 and IC1408-IC1412 refer to page 109.

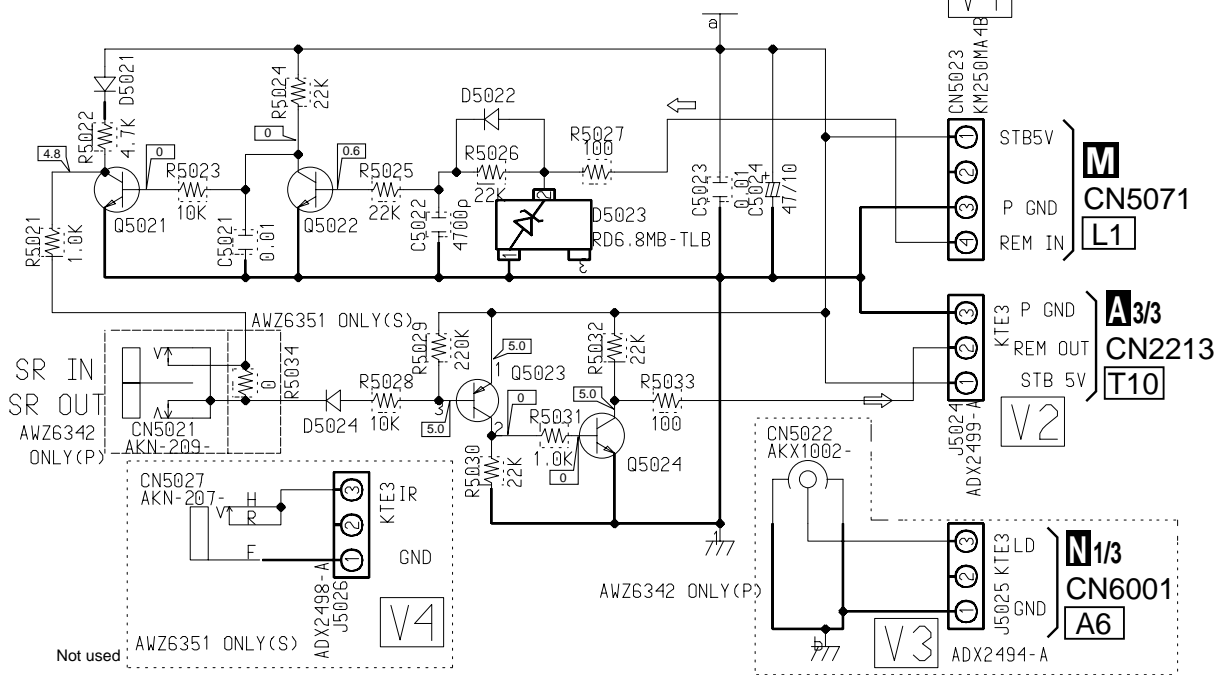
SIGNAL ROUTE
➡ : V.deflection Signal Route

F-a F-b G

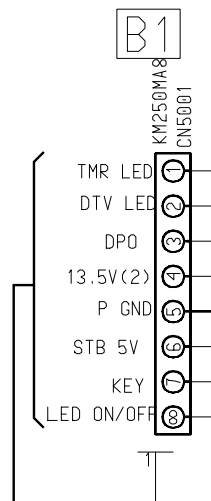
F-b G

3.24 SR BNC ASSY, FRONT INPUT ASSY, FRONT CONTROL ASSY, LED DPO ASSY, POWER SW ASSY, SR ASSY

H SR BNC ASSY (AWZ6342)

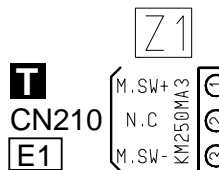
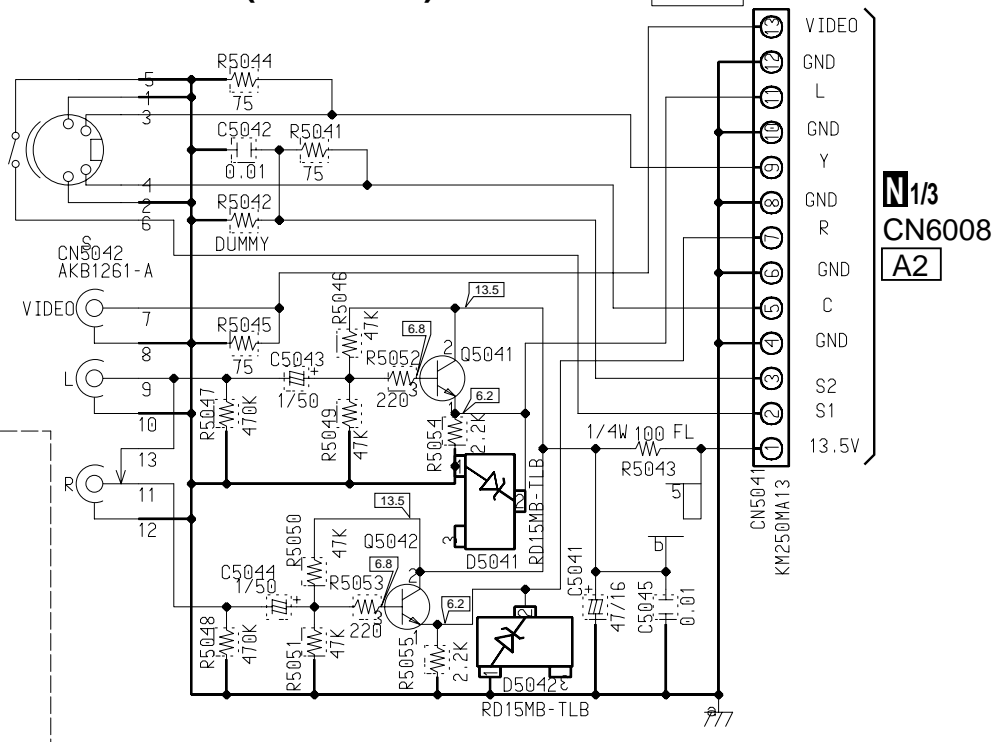


J FRONT C (AWZ633)



A3/3
CN2209
T6

I FRONT INPUT ASSY (AWZ6339)

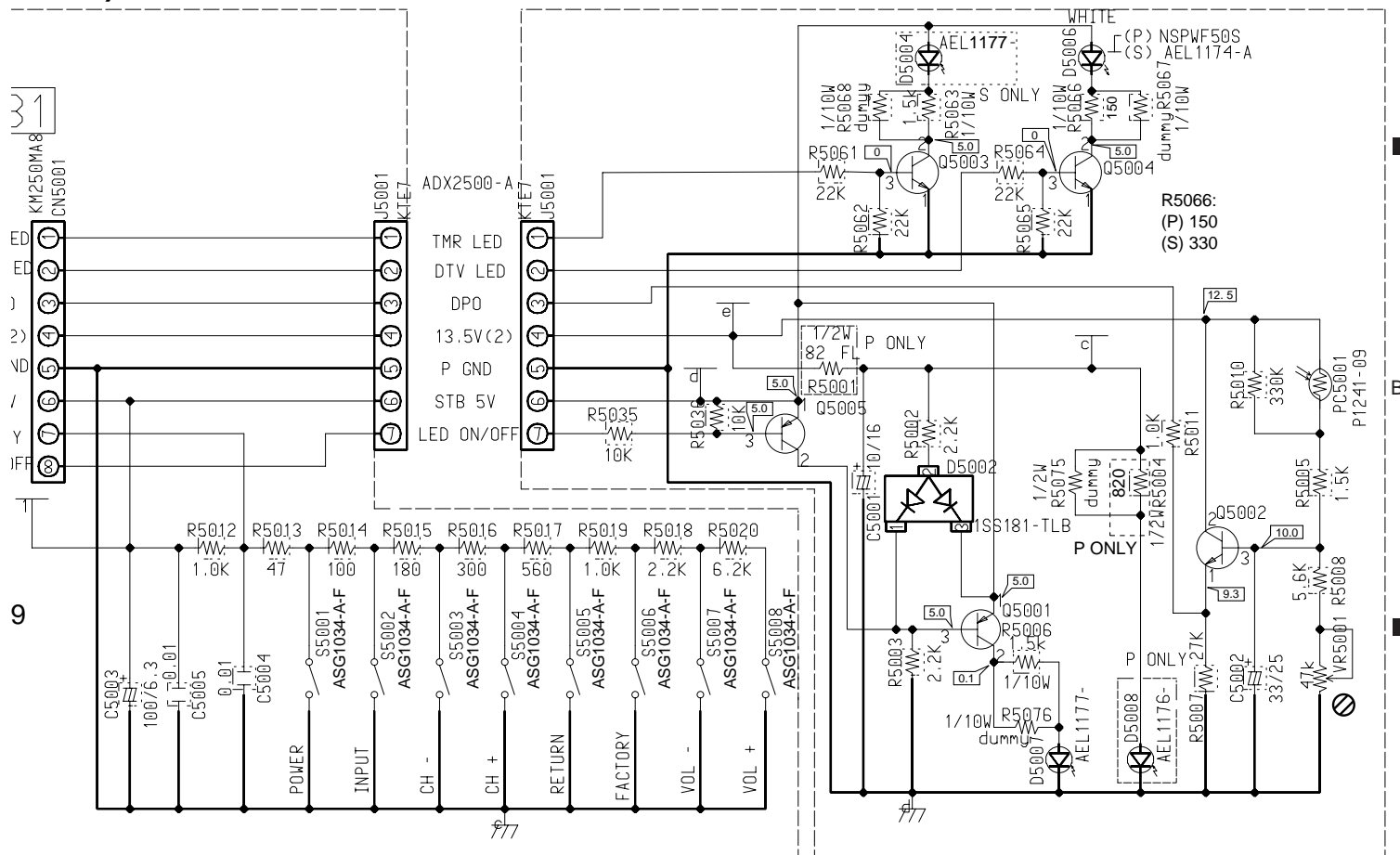


T
CN210
E1

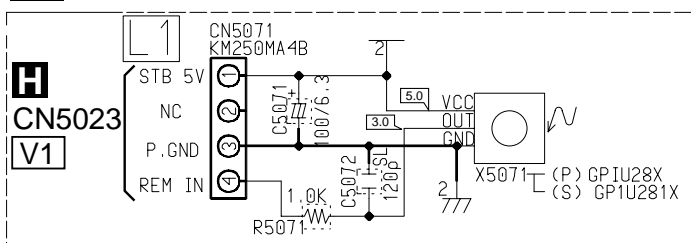
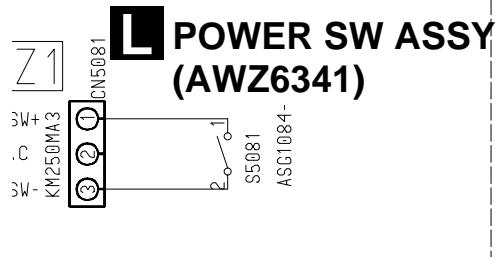
Note
1.RESI
Indi
to
2.CAPA
Ind
o
Indice

NT CONTROL ASSY Z6337)

K LED DPO ASSY (AWZ6338)



M SR ASSY (AWZ6340)



Notes

1.RESISTORS

Indicated in Ω

tolerance unless otherwise noted k k

2.CAPASITORS

Indicated in capacity(uF)/Voltage unless

otherwise noted p pF

Indication without voltage is 50V except electrolytic capacitor.

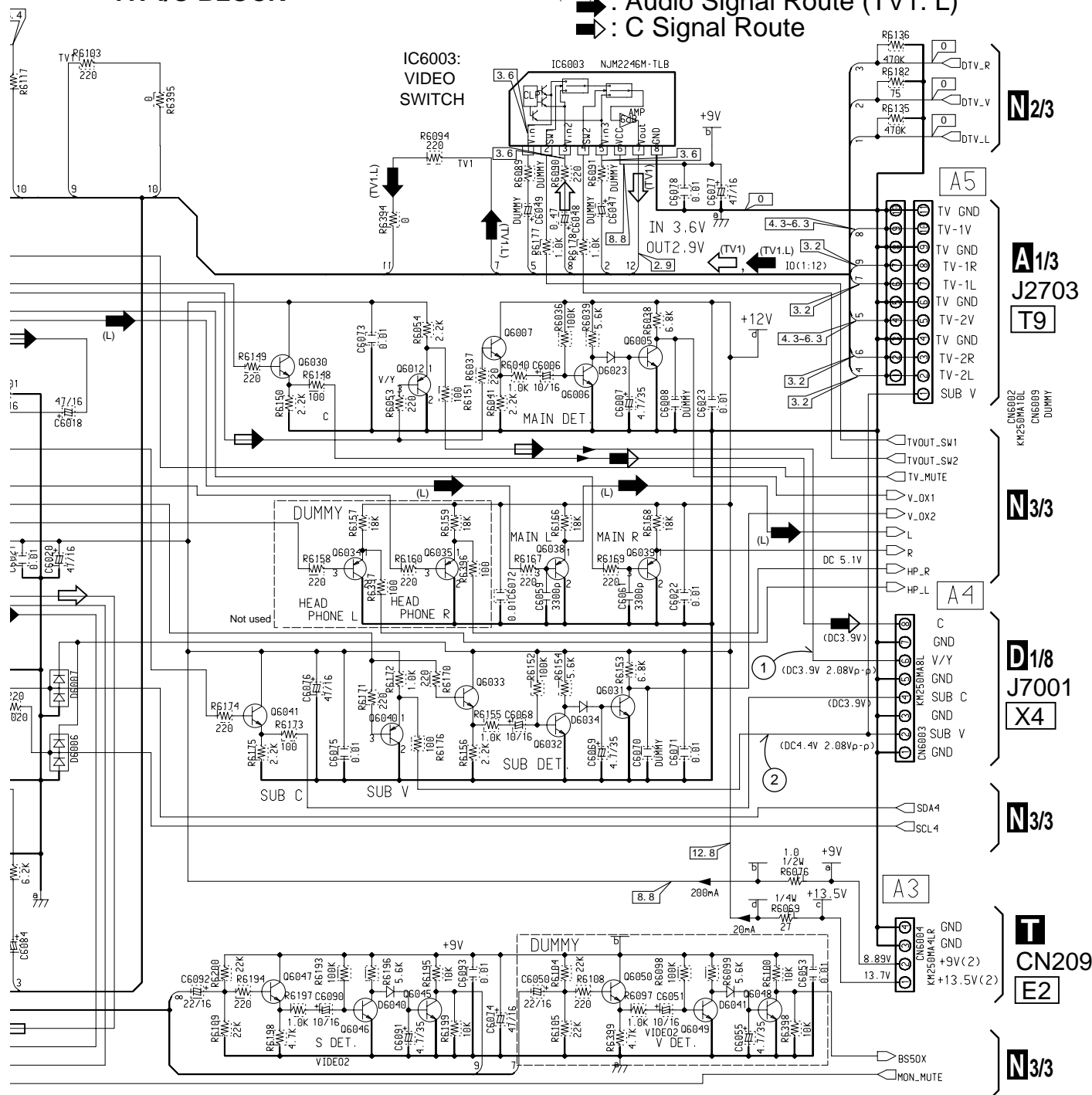
3.25 AV I/O ASSY (1/3)



AV I/O ASSY(1/3) (AWV1714) • AV I/O BLOCK

SIGNAL ROUTE

- ⇒ : Video Signal Route
- ⇒ (TV1) : Video Signal Route (TV1)
- ⇒ : Audio Signal Route
- ⇒ : Y Signal Route
- ⇒ (TV1.L) : Audio Signal Route (TV1. L)
- ⇒ : C Signal Route



IC6003

TVOUT SW1	TVOUT SW2	TV OUT
H	L	TV1

- 2SC2712(YGR)-TLB
- 2SA1162(YGR)-TLB
- 1SS226-TRB
- 1SS352-TRB

Notes

1.RESISTORS

Indicated in Ω
tolerance unless otherwise noted k Ω

2.CAPACITORS

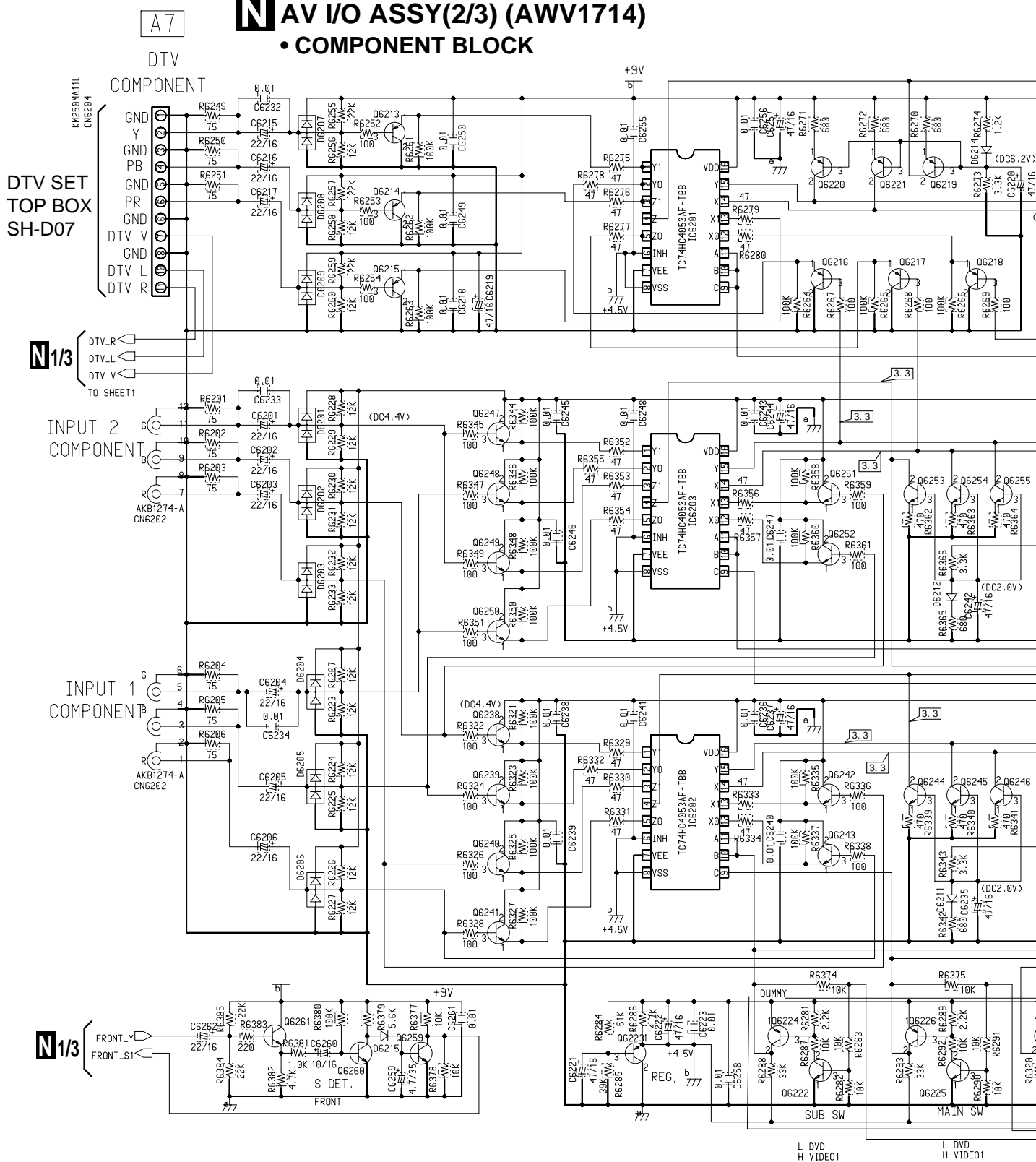
Indicated in capacity(uF)/Voltage unless
otherwise noted pF

Indication without voltage is 50V except electrolytic capacitor.

Note: As for voltages of IC6001 refer to page 110.

3.26 AV I/O ASSY (2/3)

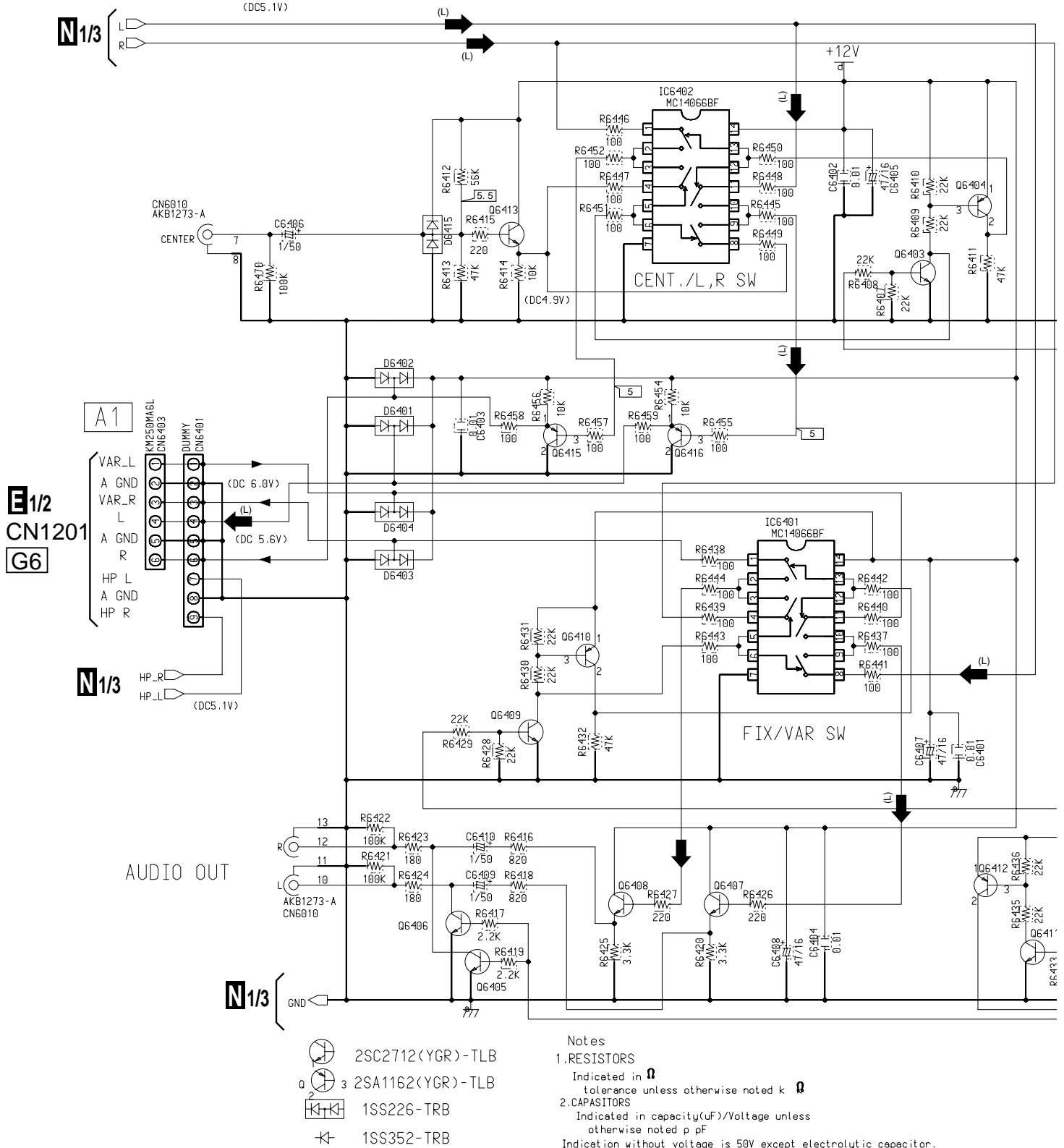
N AV I/O ASSY(2/3) (AWV1714)

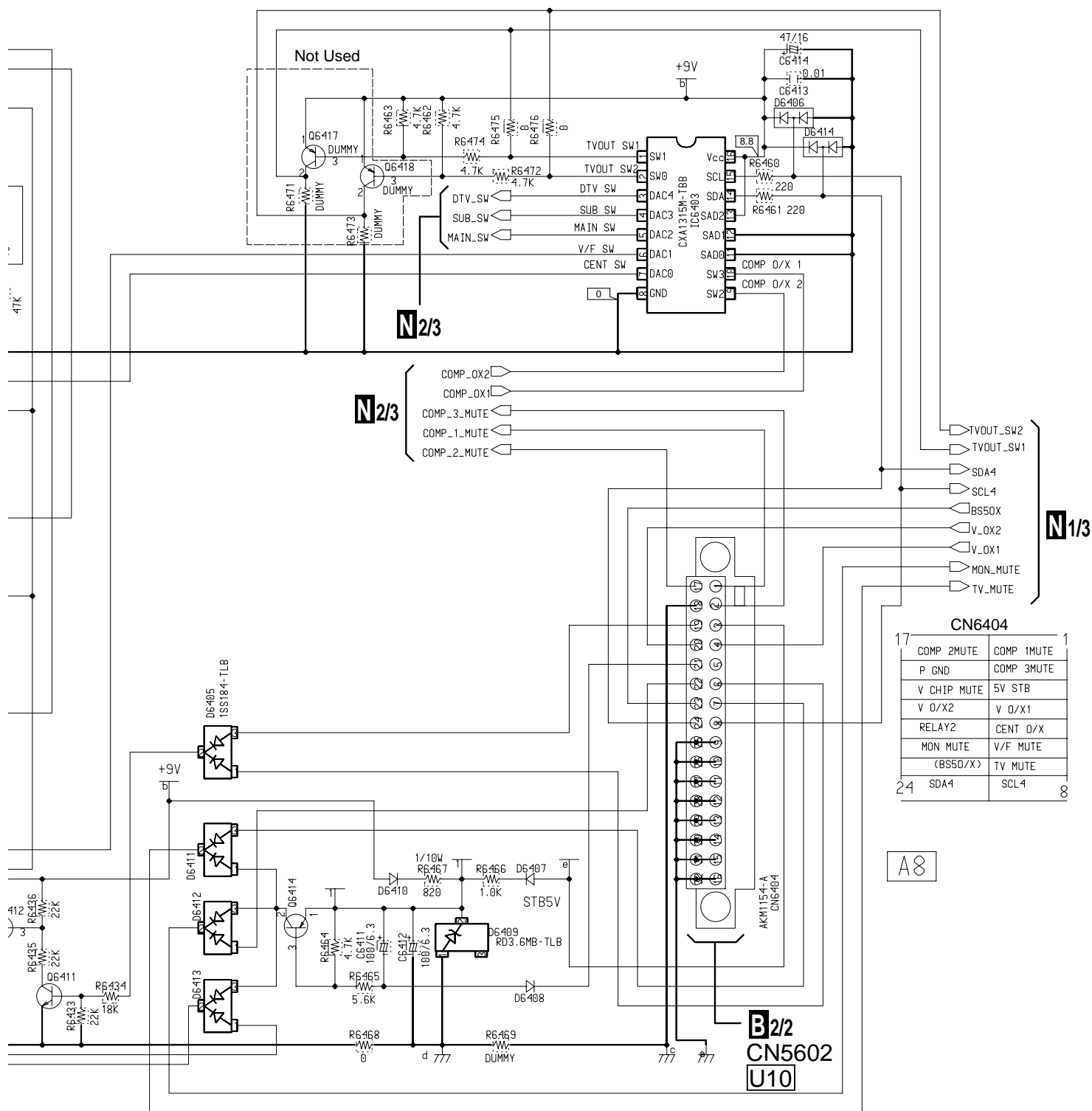




3.27 AV I/O ASSY (3/3)

N AV I/O ASSY(3/3) (AWV1714) • SOUND BLOCK

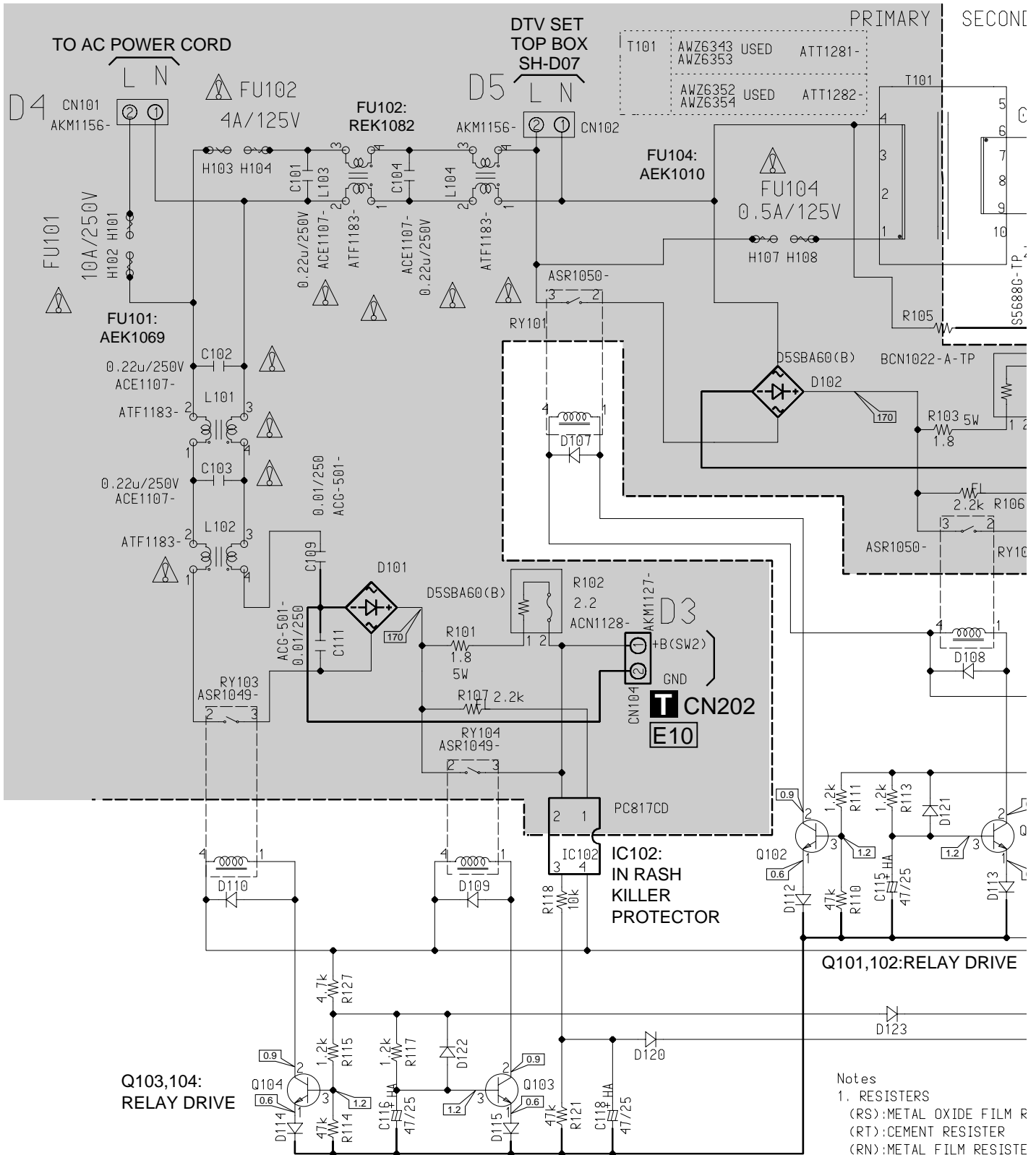




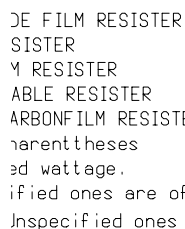
SIGNAL ROUTE
➡ : Audio Signal Route

3.28 AC IN ASSY

AC IN ASSY (AWZ6353)




CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

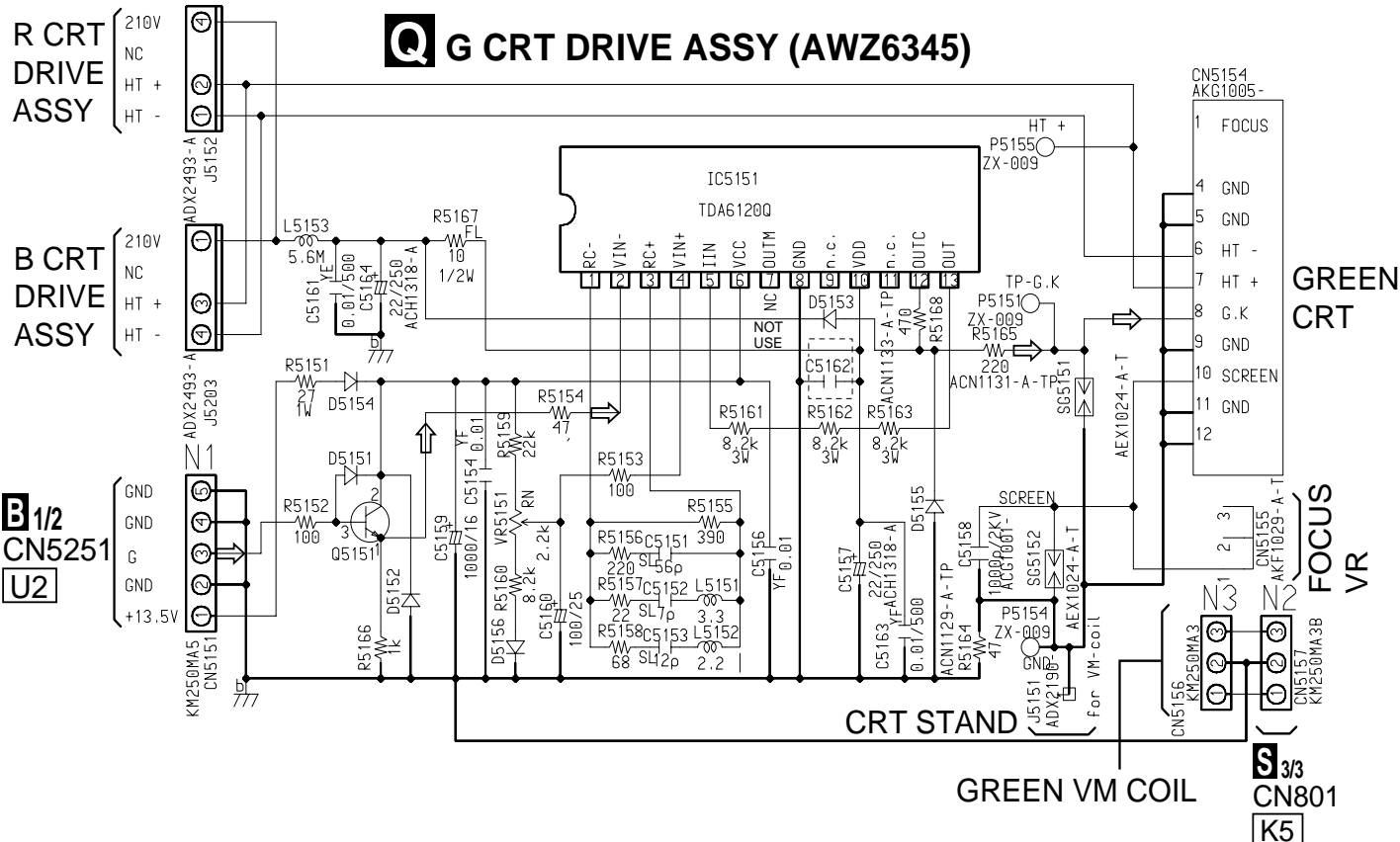
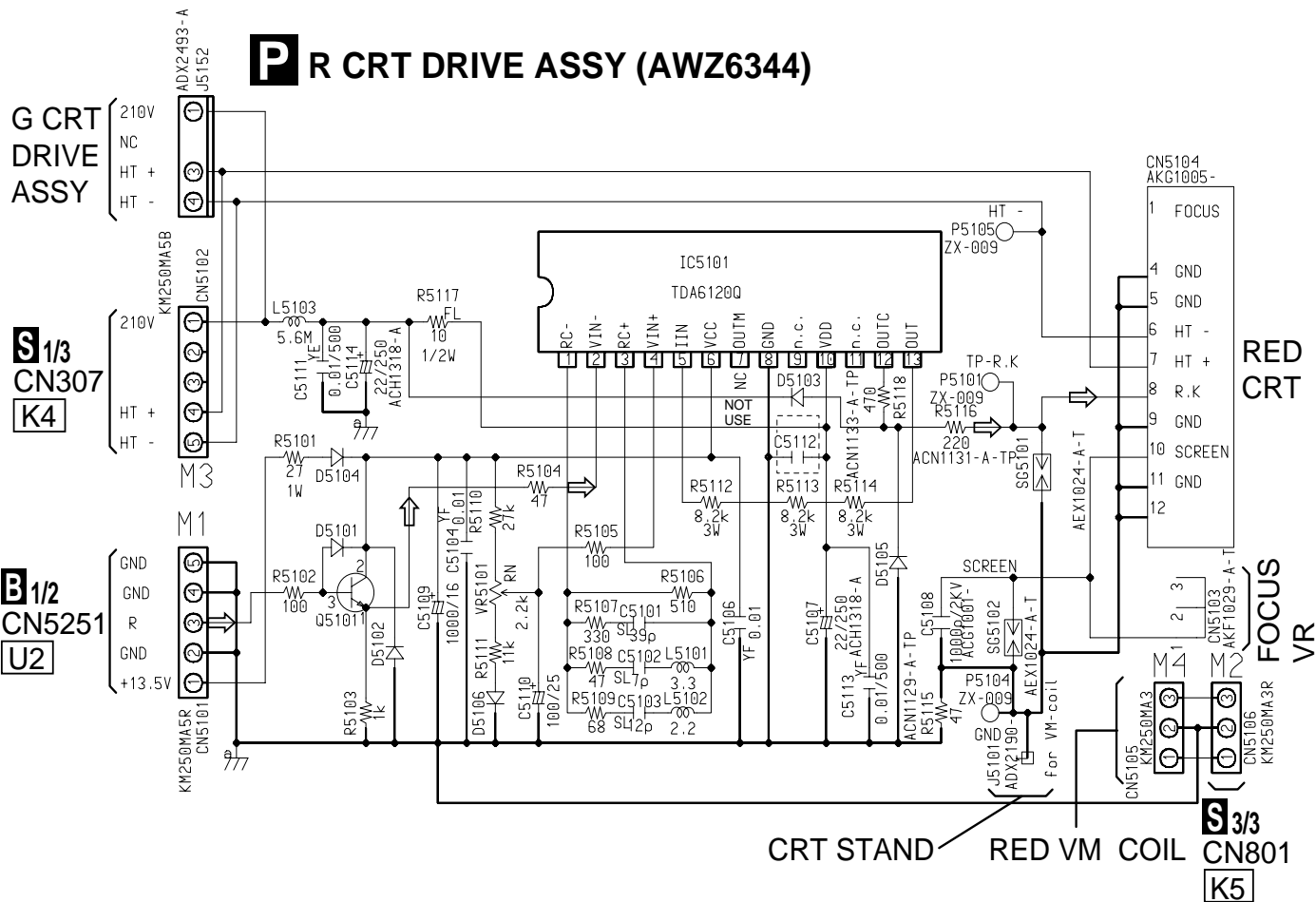


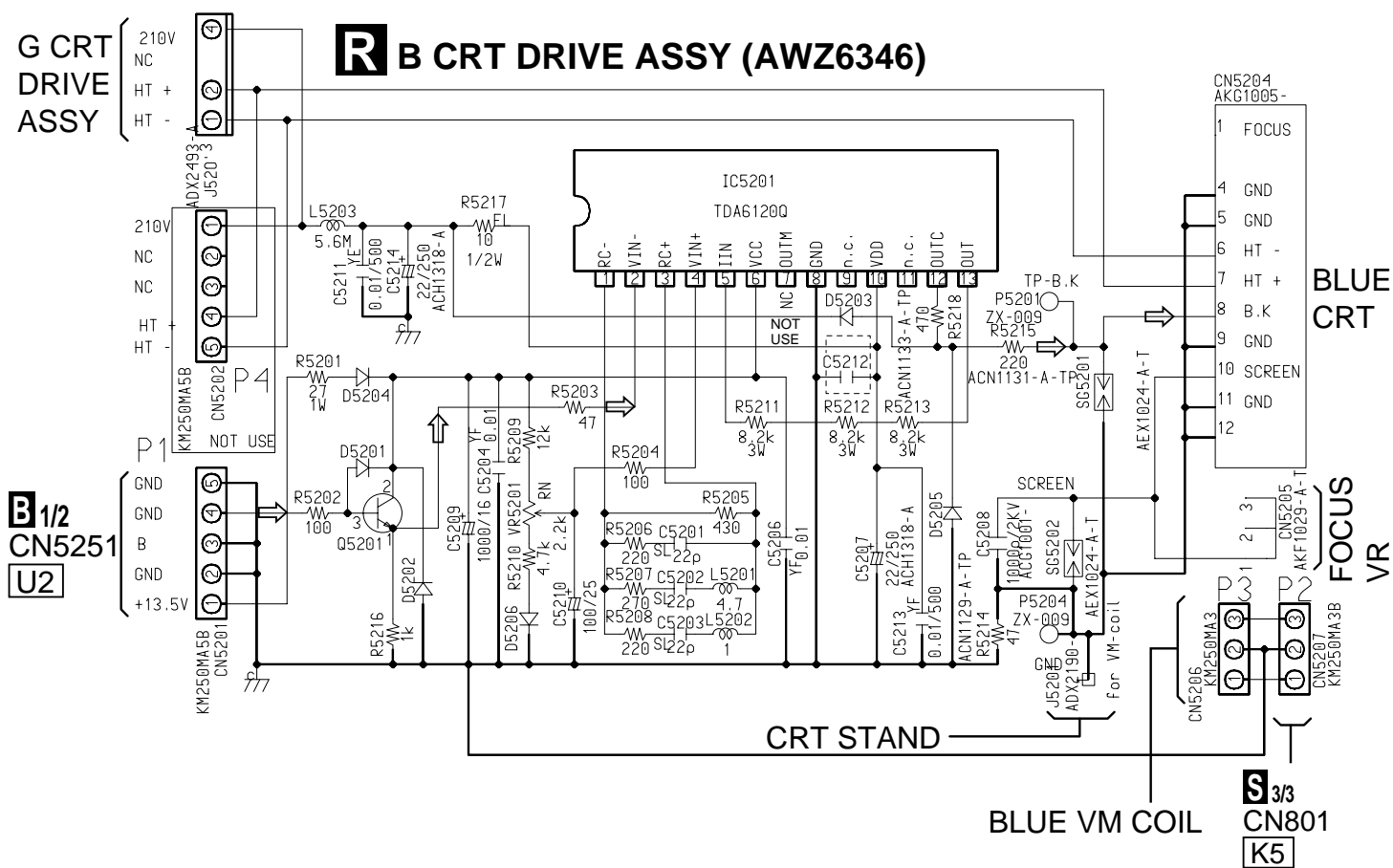
- (HA):Aluminium electrolytic capacitors
p:pF,Unspecified ones are of uF
Capacity/Voltage
Unspecified ones are of 50V

1SS254

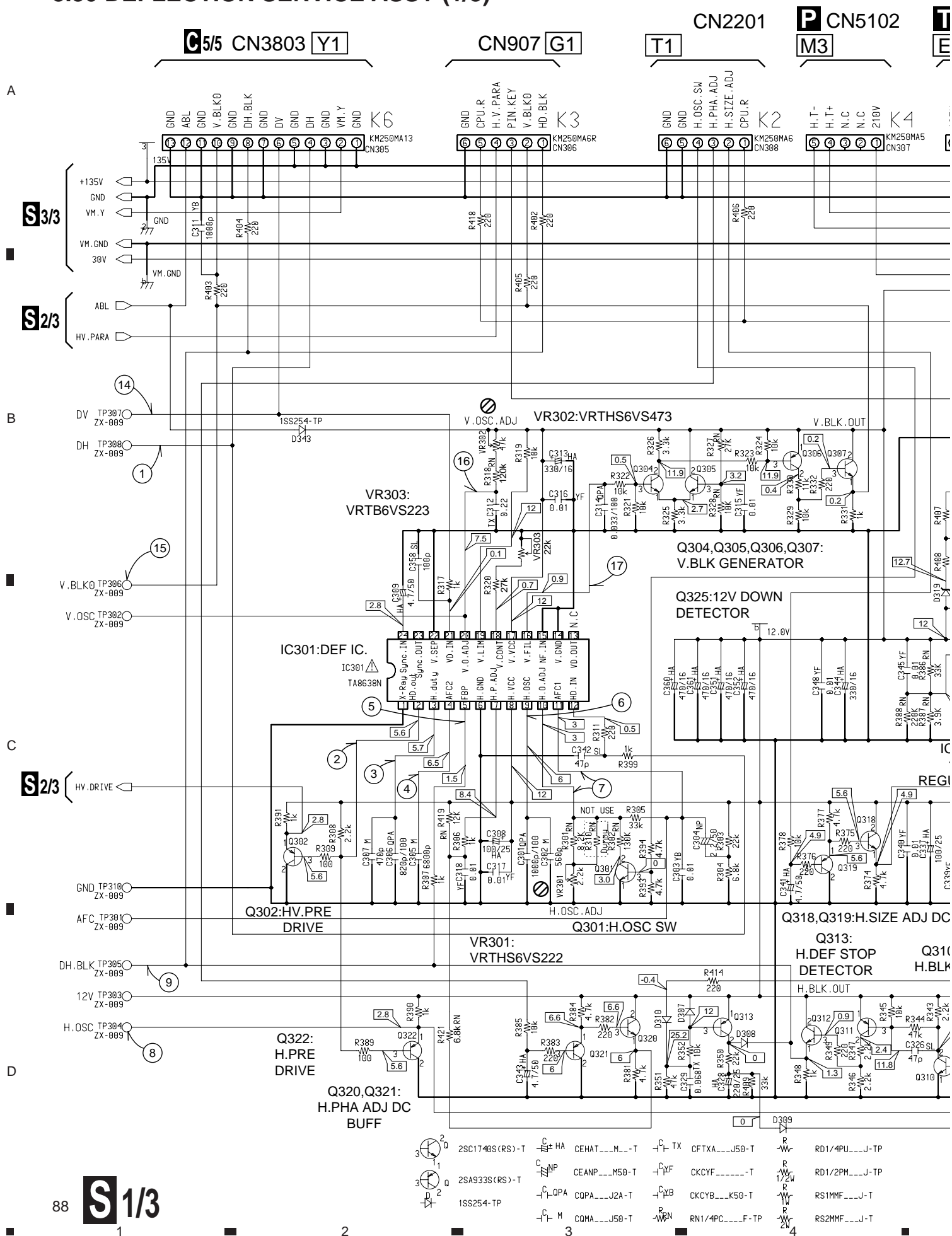
3. The  mark found on some component parts of indicates the importance of the safety factor of the parts.
Therefore, when replacing, be sure to use parts of identical de-signation.

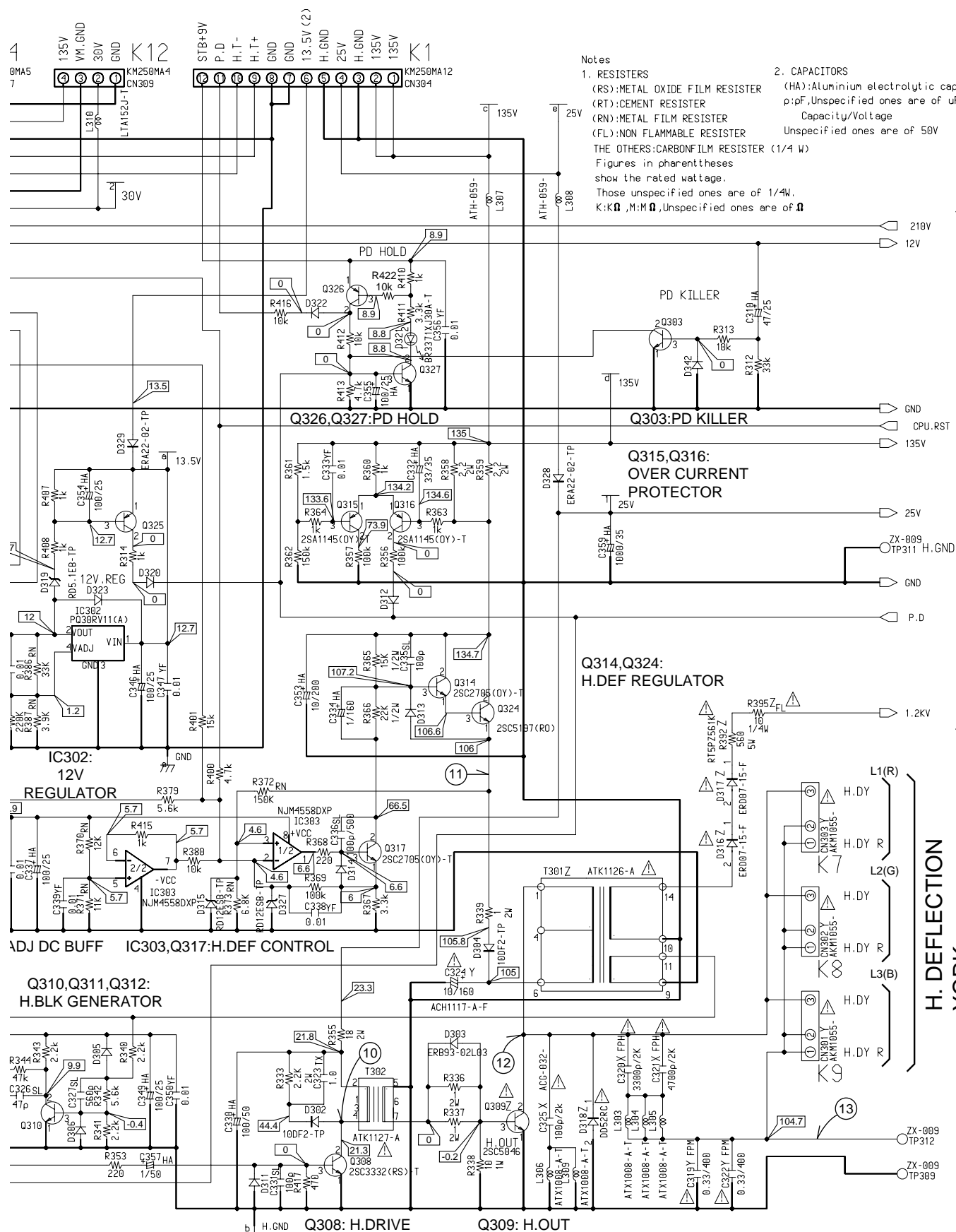
3.29 R CRT DRIVE ASSY, G CRT DRIVE ASSY, B CRT DRIVE ASSY



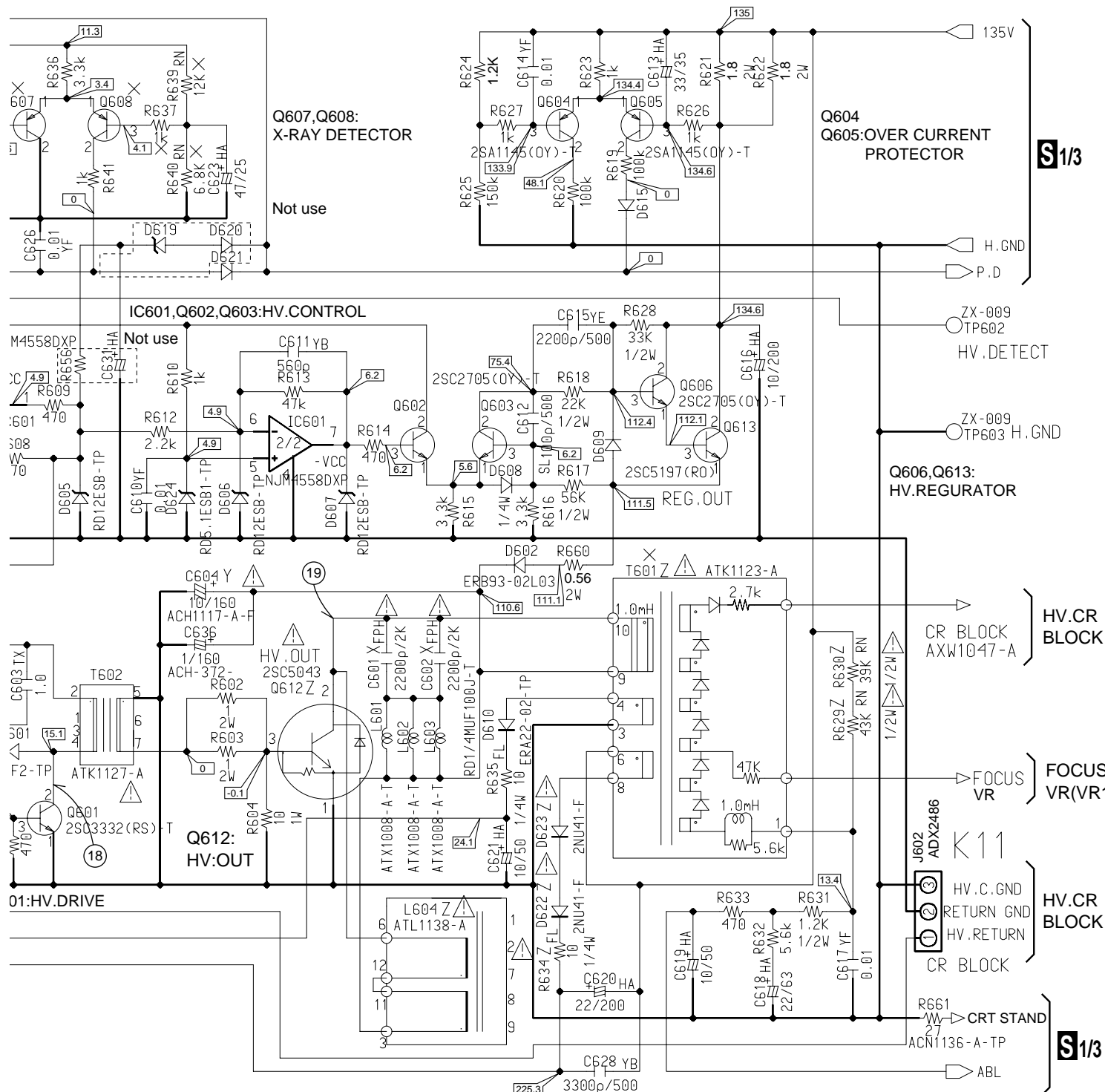
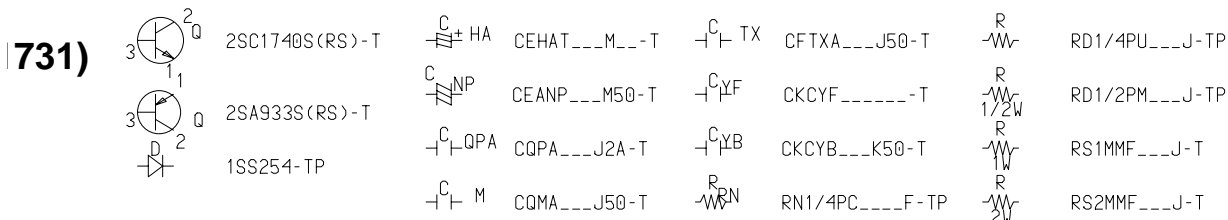


3.30 DEFLECTION SERVICE ASSY (1/3)

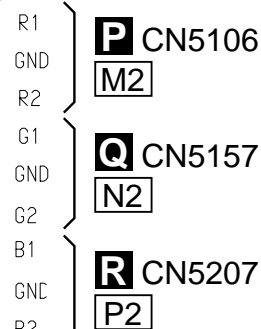
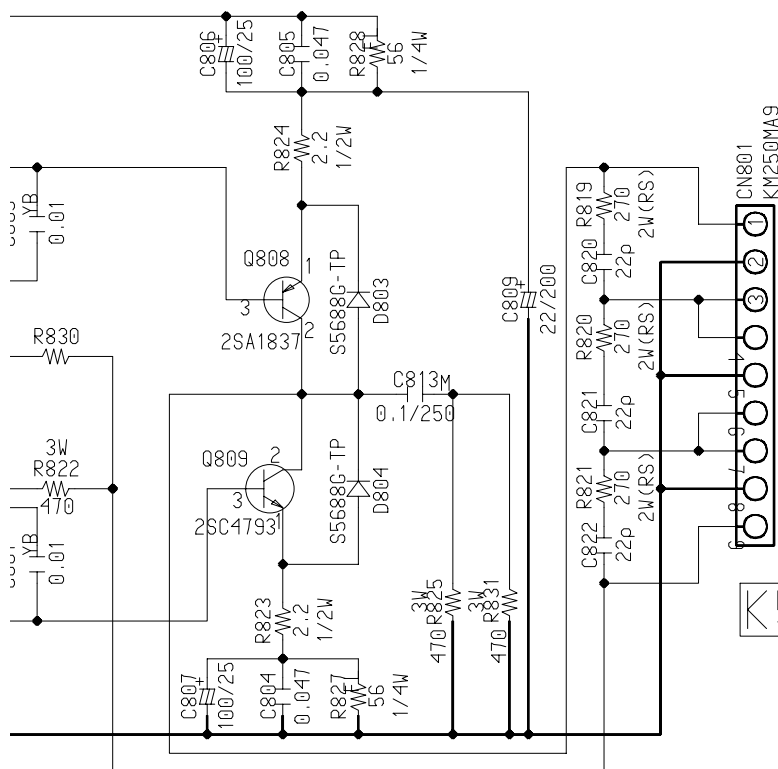
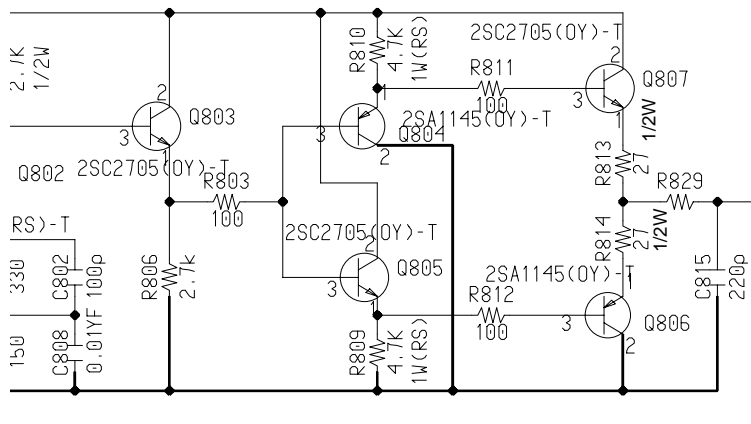


T CN205
E6
T CN203 **E7**
S DEFLECTION SERVICE ASSY(1/3) (AWV1731)
 • H. DEF BLOCK

S 2/3

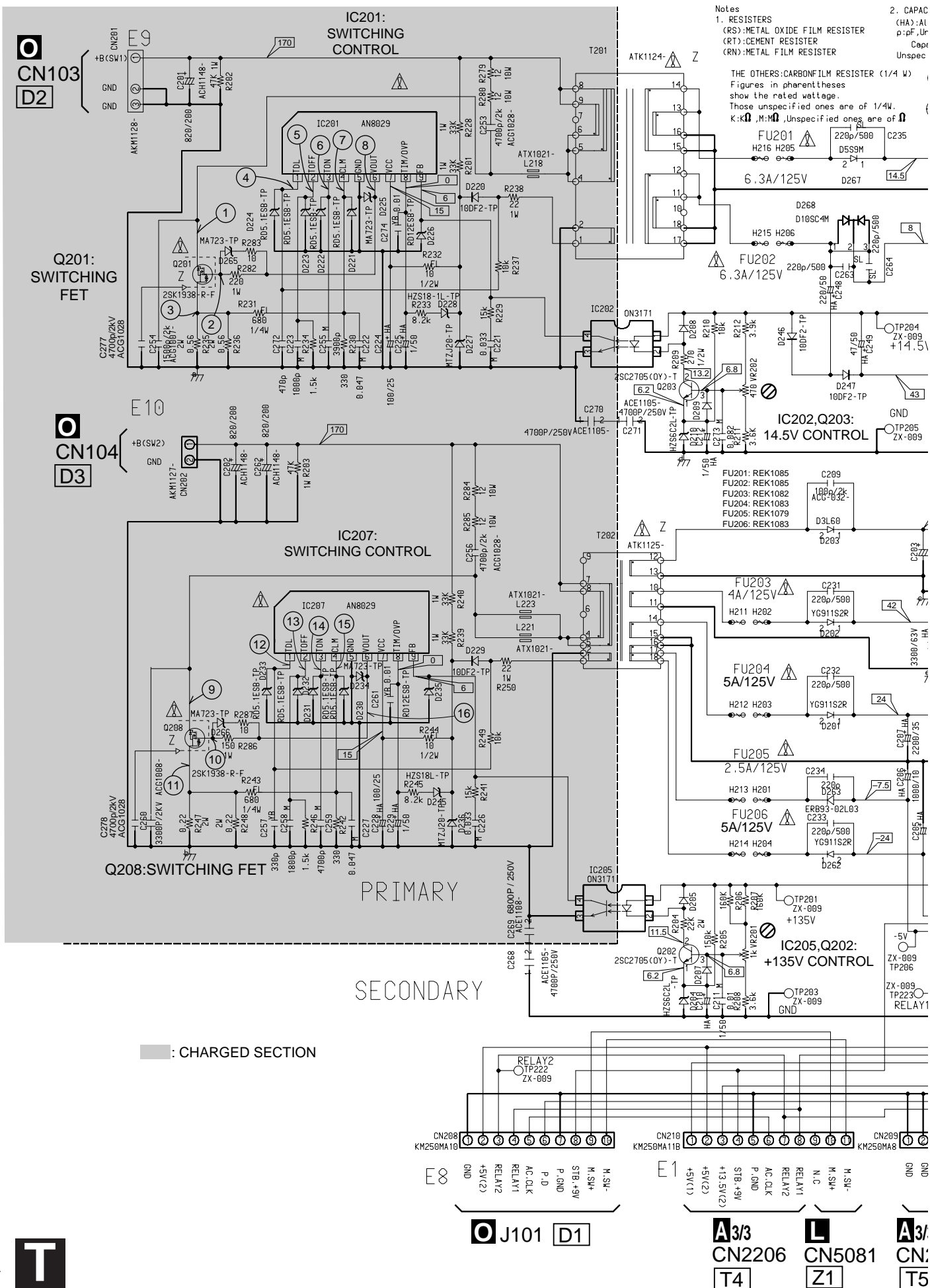
**H. DEFLECTION
 YORK**
S 1/3 89



1)



3.33 POWER SUPPLY ASSY



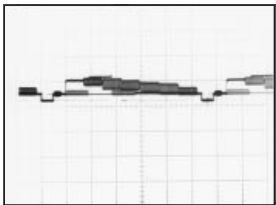
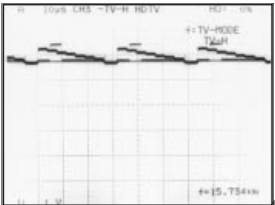
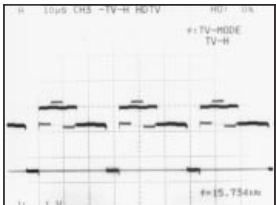
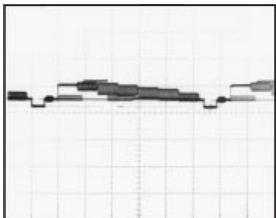
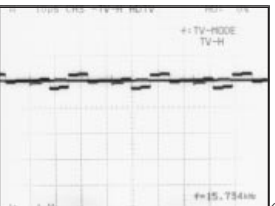
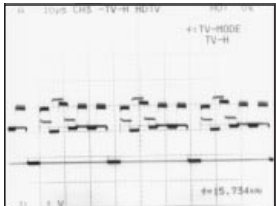
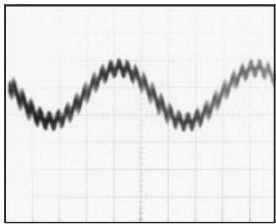
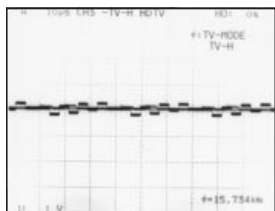
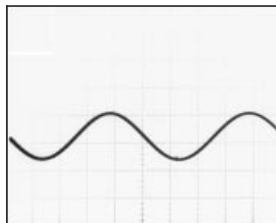
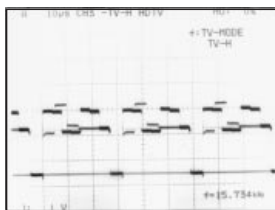
WAVEFORMS AND VOLTAGES

A TUNER u-COM ASSY

Input signal
Video signal: Color bar
Picture quality: Standard
Range: DC range (Unless otherwise noted)

B VIDEO ASSY

Input signal
Video signal: Color bar (NTSC, EIA)
Picture quality: Standard
Range: DC range (Unless otherwise noted)

<div>① K2701-pin18 V : 1V/div H : 10μsec/div</div> <div></div> <div>GND</div>	<div>① Q5256 Emitfer V : 1V/div H : 10μsec/div</div> <div></div> <div>GND</div>	<div>⑤ P5253 V : 1V/div H : 10μsec/div</div> <div></div> <div>GND</div>
<div>② J2703-pin9 V : 1V/div H : 10μsec/div</div> <div></div> <div>GND</div>	<div>② Q5254 Emitfer V : 1V/div H : 10μsec/div</div> <div></div> <div>GND</div>	<div>⑥ P5254 V : 1V/div H : 10μsec/div</div> <div></div> <div>GND</div>
<div>③ J2703-pin2,7 V : 1V/div H : 0.2msec/div</div> <div></div> <div>GND</div>	<div>③ Q5255 Emitfer V : 1V/div H : 10μsec/div</div> <div></div> <div>GND</div>	
<div>④ K2701-pin14 V : 1V/div H : 0.2msec/div</div> <div></div> <div>GND</div>	<div>④ P5252 V : 1V/div H : 10μsec/div</div> <div></div> <div>GND</div>	

C SUB VIDEO ASSY

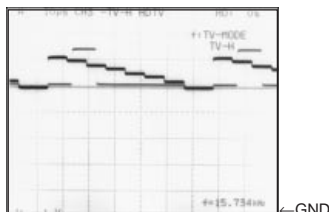
Input signal

Video signal: Color bar (NTSC, EIA)

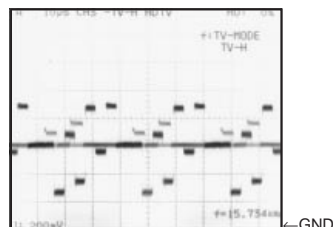
Picture quality: Standard

Range: DC range (Unless otherwise noted)

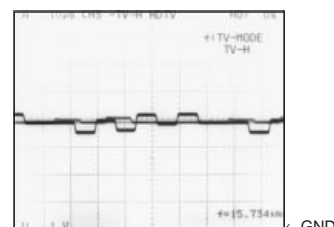
- ① K4001 (Y)
V : 1V/div H : 10 μ sec/div



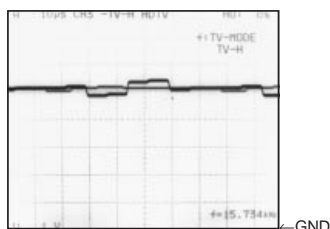
- ⑤ K4705 (B-Y)
V : 0.2V/div H : 10 μ sec/div



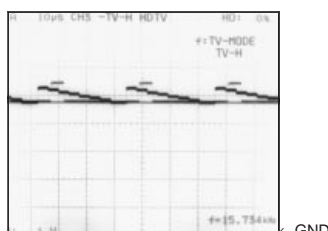
- ⑨ K4203 (B-Y)
V : 1V/div H : 10 μ sec/div



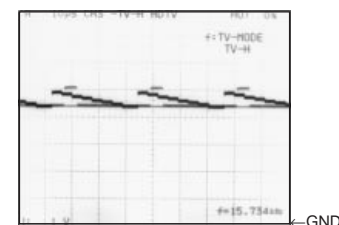
- ② K4002 (R-Y)
V : 1V/div H : 10 μ sec/div



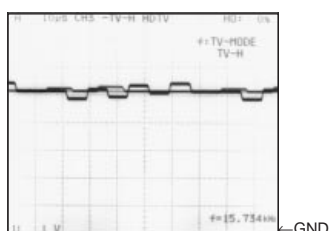
- ⑥ K4706 (Y)
V : 1V/div H : 10 μ sec/div



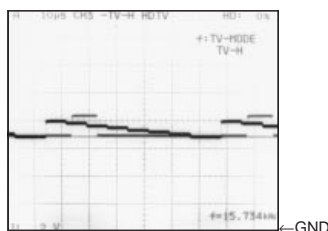
- ⑩ K4401 (Y)
V : 1V/div H : 10 μ sec/div



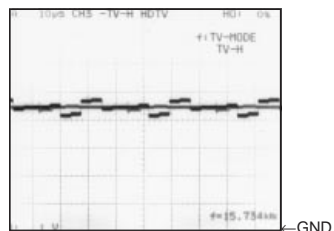
- ③ IK4003 (B-Y)
V : 1V/div H : 10 μ sec/div



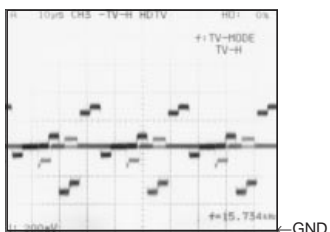
- ⑦ K4201 (Y)
V : 2V/div H : 10 μ sec/div



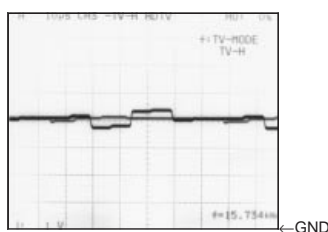
- ⑪ K4402 (R-Y)
V : 1V/div H : 10 μ sec/div



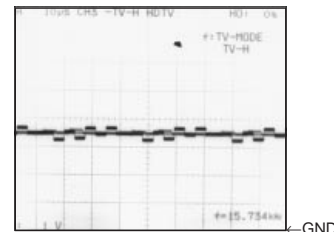
- ④ K4704 (R-Y)
V : 0.2V/div H : 10 μ sec/div



- ⑧ K4202 (R-Y)
V : 1V/div H : 10 μ sec/div

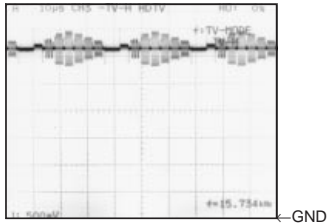
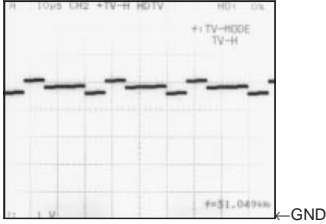
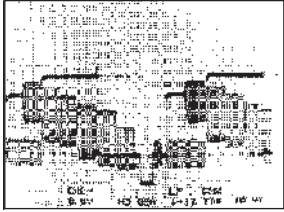
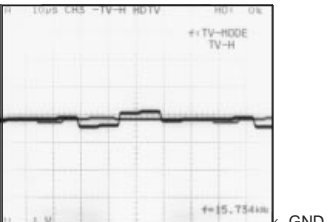
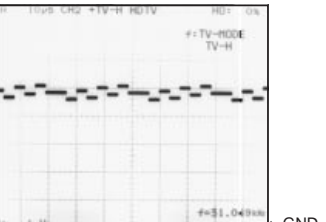
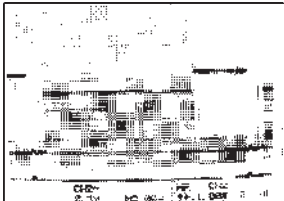
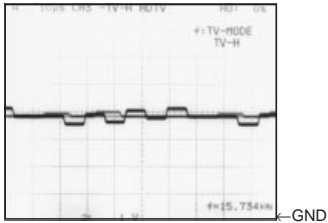
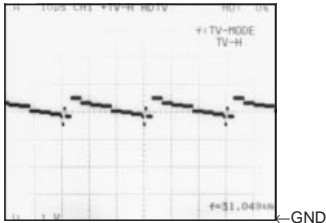
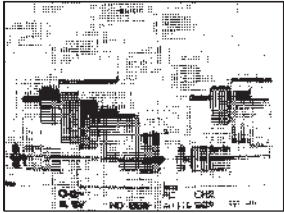
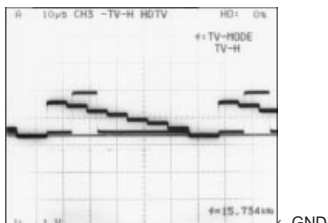
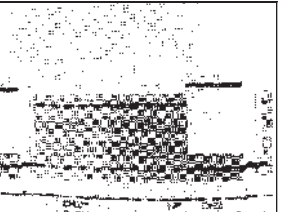


- ⑫ K4403 (B-Y)
V : 1V/div H : 10 μ sec/div

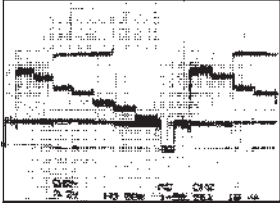
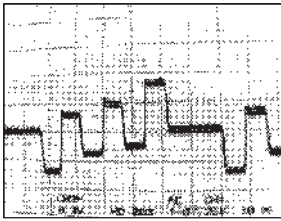
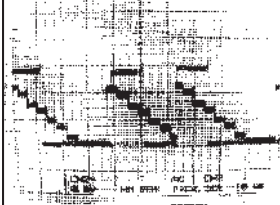
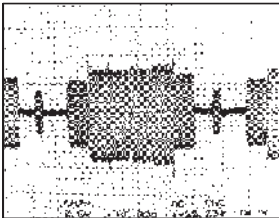
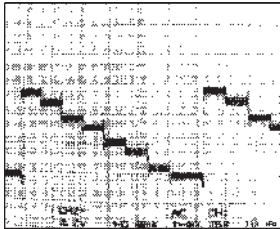
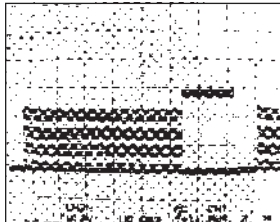
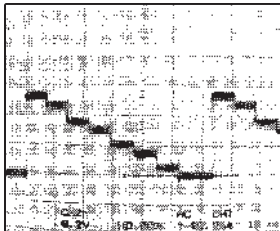
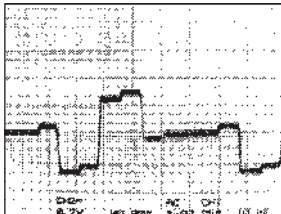
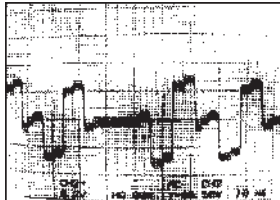
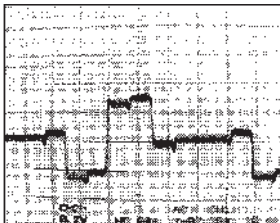
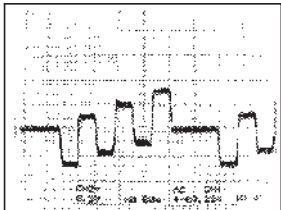
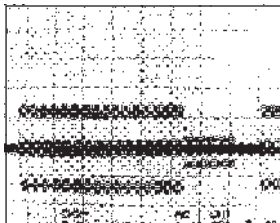


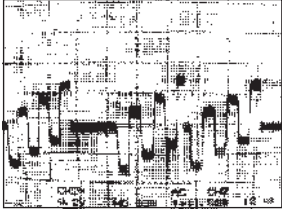
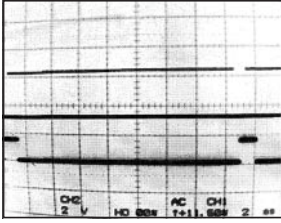
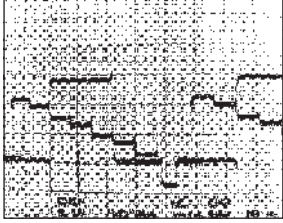
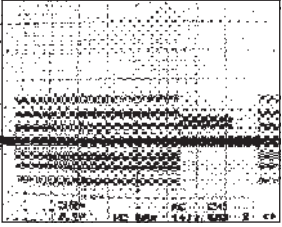
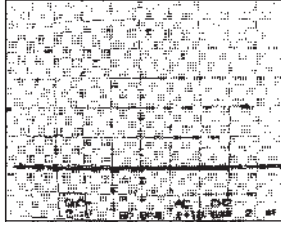
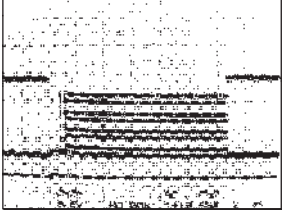
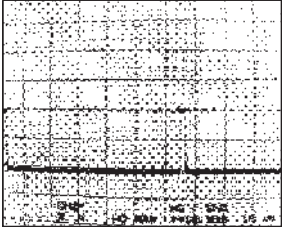
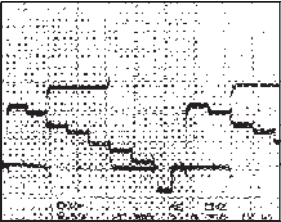
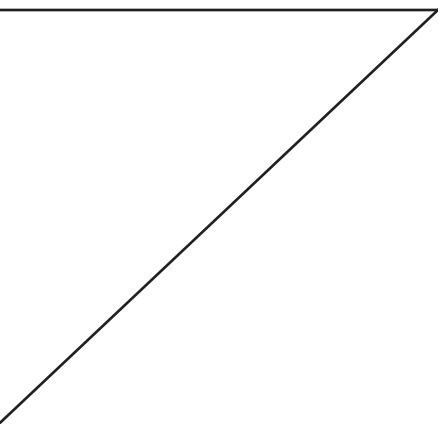
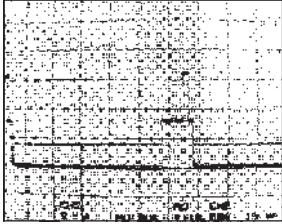
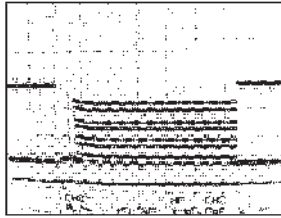
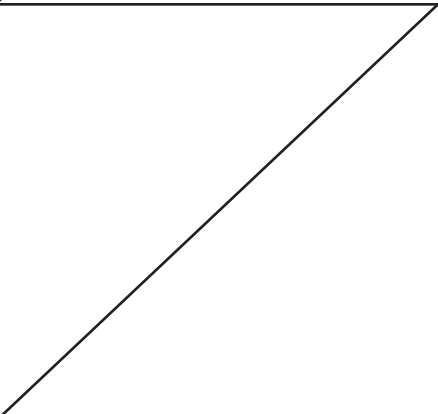
D SIGNAL ASSY

Input signal
Video signal: Color bar (NTSC, EIA)
Picture quality: Standard
Range: DC range (Unless otherwise noted)

<p>⑬ K4404 (VM-Y) V : 0.5V/div H : 10μsec/div</p>  <p>←GND</p>	<p>⑰ CN3802-pin38 (R-Y) *1 V : 1V/div H : 10μsec/div</p>  <p>←GND</p>	<p>① J7001-pin6 (H) V : 0.5V/div H : 10μsec/div</p> 
<p>⑭ CN3801-pin36 (SR-Y) V : 1V/div H : 10μsec/div</p>  <p>←GND</p>	<p>⑱ CN3802-pin39 (B-Y) *1 V : 1V/div H : 10μsec/div</p>  <p>←GND</p>	<p>① J7001-pin6 (V) V : 0.5V/div H : 2msec/div</p> 
<p>⑮ CN3801-pin37 (SB-Y) V : 1V/div H : 10μsec/div</p>  <p>←GND</p>	<p>⑲ CN3802-pin40 (DV-Y) *1 V : 1V/div H : 10μsec/div</p>  <p>←GND</p>	<p>② J7001-pin2 (H) V : 0.5V/div H : 10μsec/div</p> 
<p>⑯ CN3801-pin38 (SY) V : 1V/div H : 10μsec/div</p>  <p>←GND</p>		

*1 INPUT SIGNAL
⑰~ ⑲: 33.75kHz, FULL COLOR BAR

<p>③ IC7001-pin1 V : 0.2V/div H : 10μsec/div</p> 	<p>⑦ Q7105-Emitter V : 0.2V/div H : 10μsec/div</p> 	<p>⑪ CN7800-pin10 (SY)(H) V : 0.5V/div H : 10μsec/div</p> 
<p>④ IC7001-pin7 V : 0.5V/div H : 10μsec/div</p> 	<p>⑧ Q7309-Emitter V : 0.2V/div H : 10μsec/div</p> 	<p>⑪ CN7800-pin10 (SY)(V) V : 0.5V/div H : 2msec/div</p> 
<p>⑤ Q7118-Emitter V : 0.2V/div H : 10μsec/div</p> 	<p>⑨ Q7304-Emitter V : 0.2V/div H : 10μsec/div</p> 	<p>⑫ CN7800-pin8 (SR-Y)(H) V : 0.2V/div H : 10μsec/div</p> 
<p>⑥ Q7106-Emitter V : 0.2V/div H : 10μsec/div</p> 	<p>⑩ Q7303-Emitter V : 0.2V/div H : 10μsec/div</p> 	<p>⑫ CN7800-pin8 (SR-Y)(V) V : 0.5V/div H : 2msec/div</p> 

<p>⑬ CN7800-pin9 (SB-Y)(H) V : 0.2V/div H : 10μsec/div</p> 	<p>⑮ CN7800-pin14 (SCPO)(V) V : 2V/div H : 2msec/div</p> 	<p>⑱ CN7600-pin16 (SCCY)(H) V : 0.5V/div H : 10μsec/div</p> 
<p>⑬ CN7800-pin9 (SB-Y)(V) V : 0.2V/div H : 2msec/div</p> 	<p>⑯ CN7800-pin13 V : 2V/div H : 2msec/div</p> 	<p>⑱ CN7600-pin16 (SCCY)(V) V : 0.5V/div H : 2msec/div</p> 
<p>⑭ CN7800-pin15 V : 2V/div H : 10μsec/div</p> 	<p>⑰ CN7600-pin18,40 (MCCY)(H) V : 0.5V/div H : 10μsec/div</p> 	
<p>⑮ CN7800-pin14 (SCPO)(H) V : 2V/div H : 10μsec/div</p> 	<p>⑰ CN7600-pin18,40 (MCCY)(V) V : 0.5V/div H : 2msec/div</p> 	

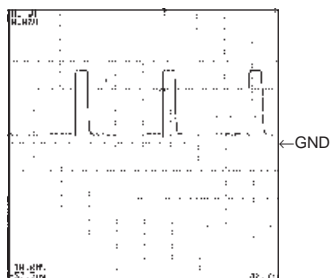
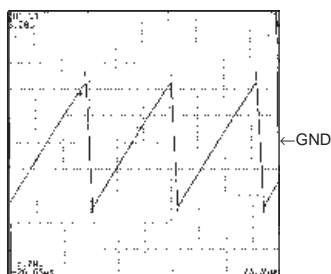
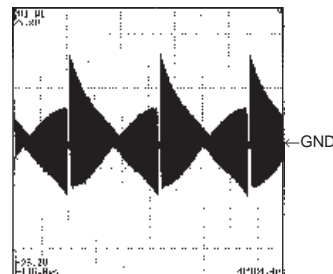
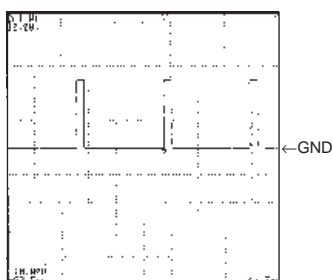
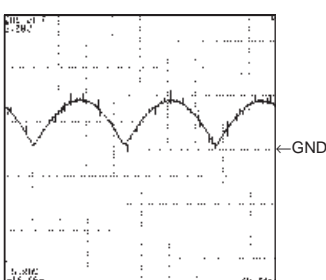
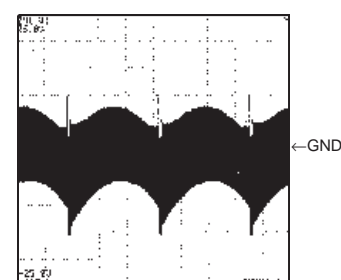
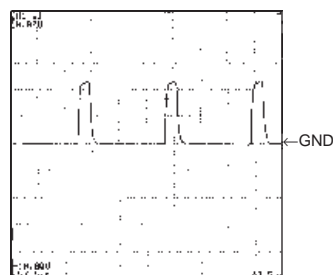
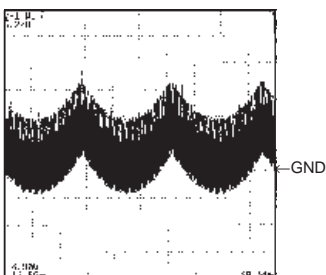
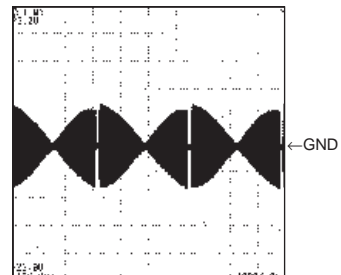
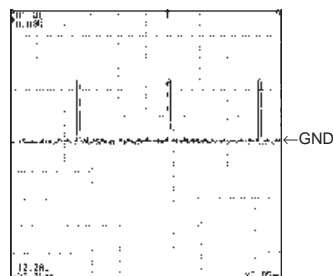
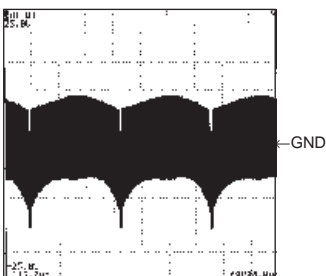
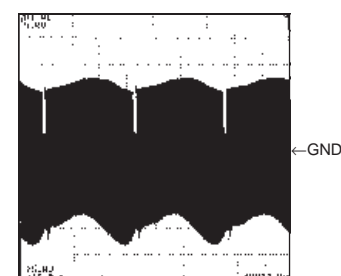
E AMP ASSY

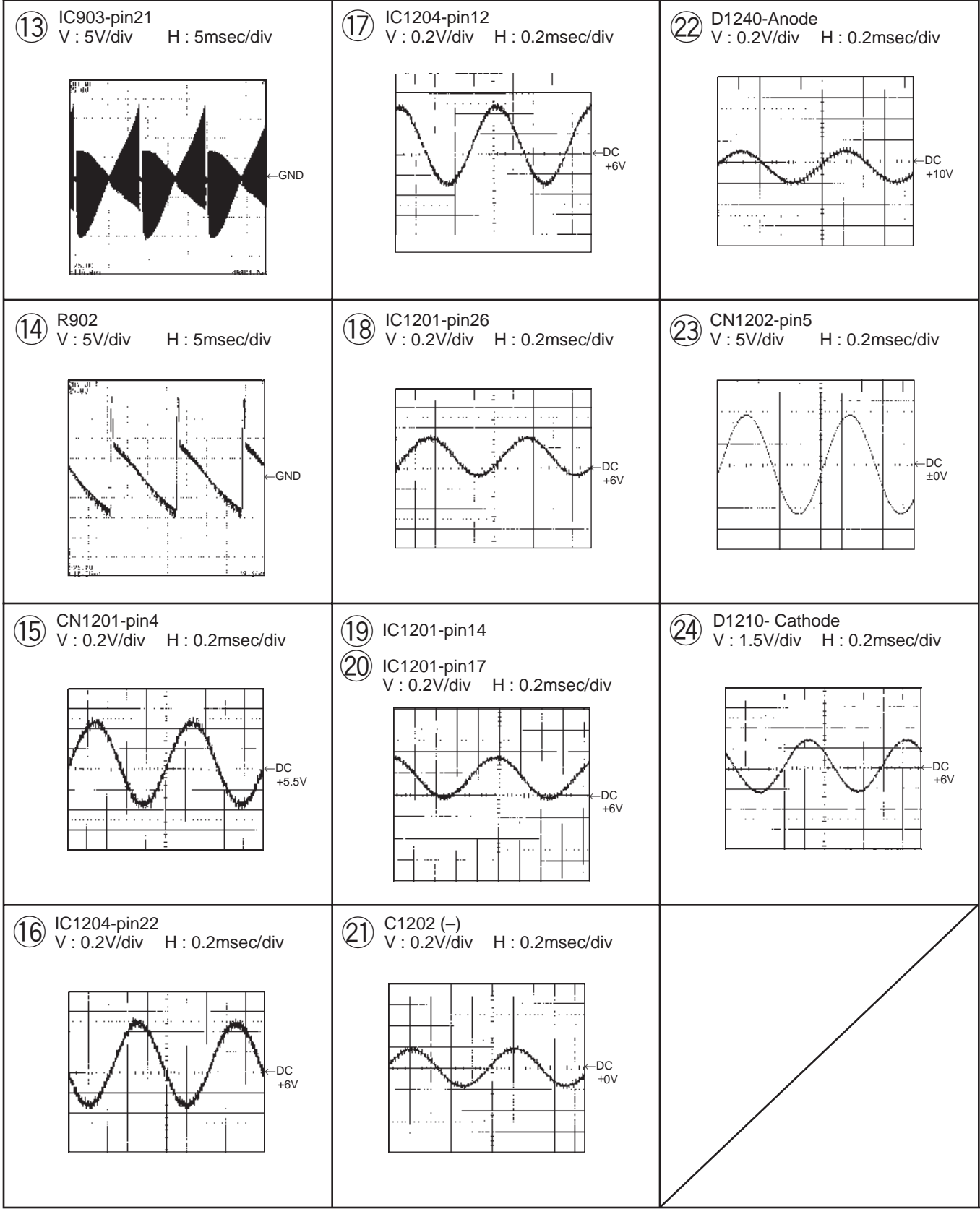
Input signal

Video signal: Color bar (NTSC, EIA)

Picture quality: Standard

Range: DC range (Unless otherwise noted)

① IC911-pin4
V : 2V/div H : 10 μ sec/div⑤ C1011
V : 1V/div H : 10 μ sec/div⑨ IC904-pin20
V : 5V/div H : 5msec/div② IC913-pin10
V : 2V/div H : 10 μ sec/div⑥ R958
V : 1V/div H : 5msec/div⑩ IC904-pin22
V : 5V/div H : 5msec/div③ IC911-pin10
V : 2V/div H : 10 μ sec/div⑦ D934-Anode
V : 1V/div H : 5msec/div⑪ IC904-pin21
V : 5V/div H : 5msec/div④ R1047
V : 2V/div H : 5msec/div⑧ IC903-pin22
V : 5V/div H : 5msec/div⑫ IC903-pin20
V : 5V/div H : 5msec/div



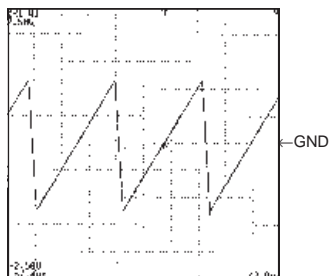
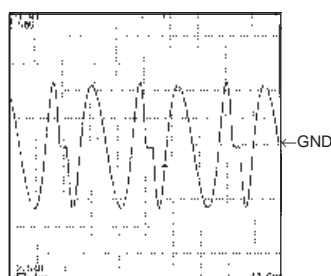
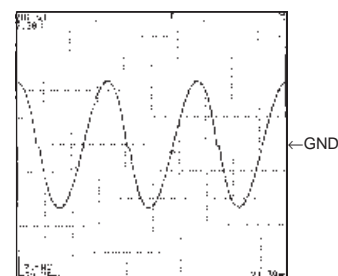
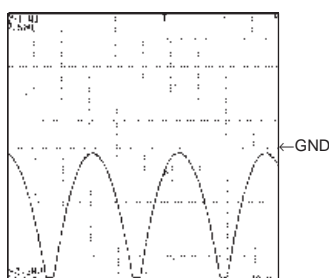
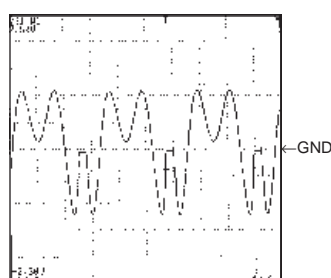
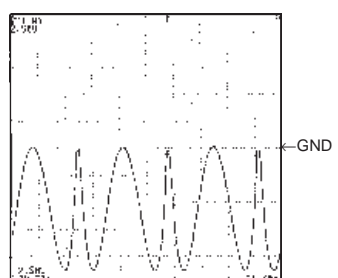
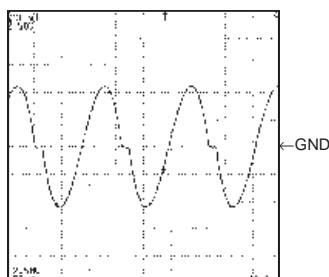
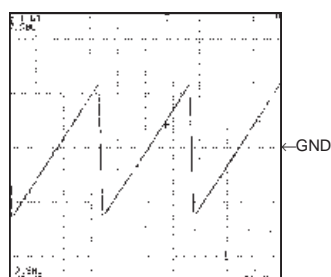
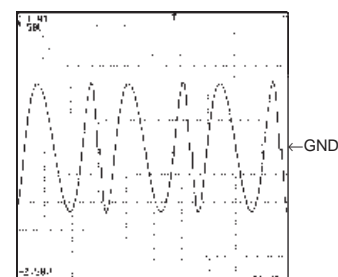
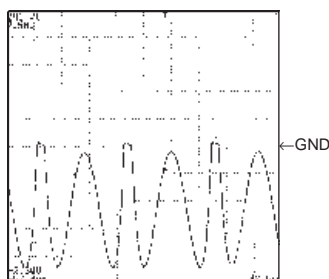
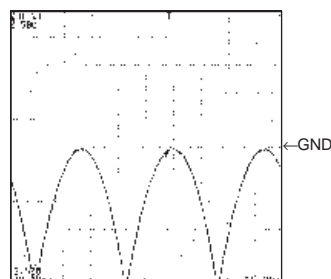
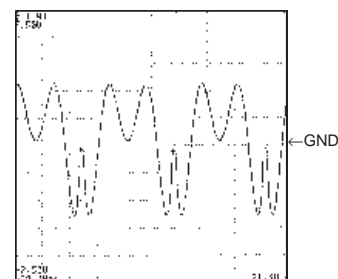
F CONVER.DAC ASSY

Input signal

Video signal: Color bar (NTSC, EIA)

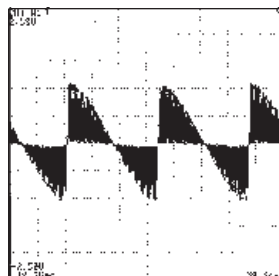
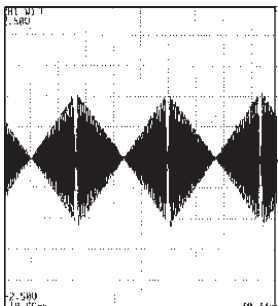
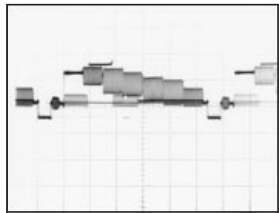
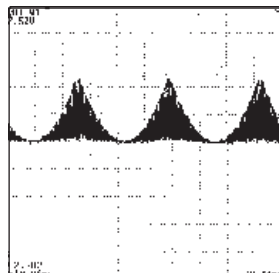
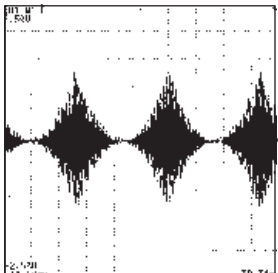
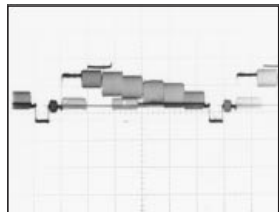
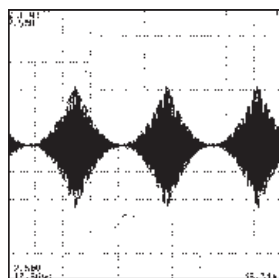
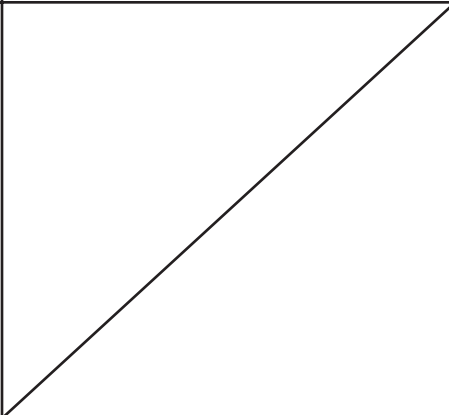
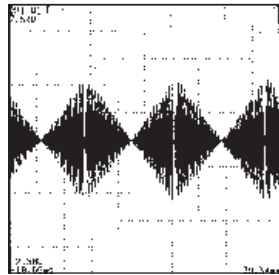
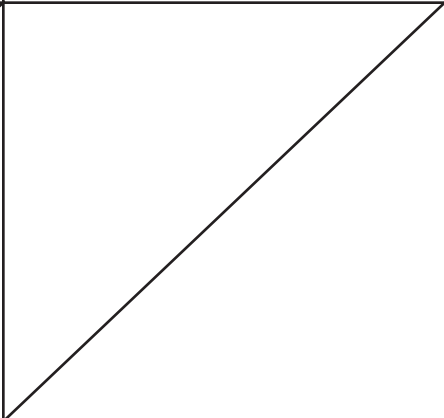
Picture quality: Standard

Range: DC range (Unless otherwise noted)

① IC1401-pin4
V : 0.5V/div H : 10 μ sec/div⑤ CI1401-pin8
V : 0.5V/div H : 10 μ sec/div⑨ IC1402-pin6
V : 0.5V/div H : 5msec/div② IC1401-pin5
V : 0.5V/div H : 10 μ sec/div⑥ IC1401-pin10
V : 0.5V/div H : 10 μ sec/div⑩ IC1402-pin7
V : 0.5V/div H : 5msec/div③ IC1401-pin6
V : 0.5V/div H : 10 μ sec/div⑦ IC1402-pin4
V : 0.5V/div H : 5msec/div⑪ IC1402-pin8
V : 0.5V/div H : 5msec/div④ IC1401-pin7
V : 0.5V/div H : 10 μ sec/div⑧ IC1402-pin5
V : 0.5V/div H : 5msec/div⑫ IC1402-pin10
V : 0.5V/div H : 5msec/div

N AV I/O ASSY

Input signal
Video signal: Color bar (NTSC, EIA)
Picture quality: Standard
Range: DC range (Unless otherwise noted)

<div>⑬ IC1411-pin24 V : 0.5V/div H : 5msec/div</div> <div></div>	<div>⑰ IC1409-pin24 V : 0.5V/div H : 5msec/div</div> <div></div>	<div>① CN6003-pin6 V : 1V/div H : 10μsec/div</div> <div></div>
<div>⑭ IC1412-pin24 V : 0.5V/div H : 5msec/div</div> <div></div>	<div>⑱ IC1408-pin24 V : 0.5V/div H : 5msec/div</div> <div></div>	<div>② CN6003-pin2 V : 1V/div H : 10μsec/div</div> <div></div>
<div>⑮ IC1403-pin24 V : 0.5V/div H : 5msec/div</div> <div></div>		
<div>⑯ IC1410-pin24 V : 0.5V/div H : 5msec/div</div> <div></div>		

O AC IN ASSY

Input signal

Video signal: Color bar (NTSC, EIA)

Picture quality: Standard

Range: DC range (Unless otherwise noted)

S DEFLECTION SERVICE ASSY

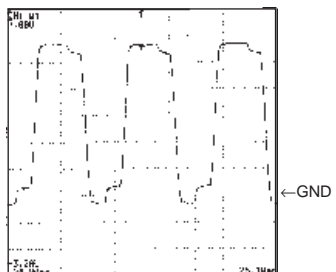
Input signal

Video signal: Color bar (NTSC, EIA)

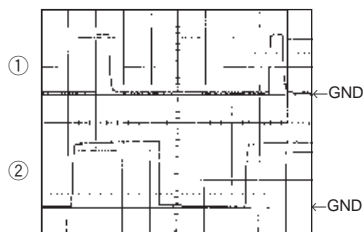
Picture quality: Standard

Range: DC range (Unless otherwise noted)

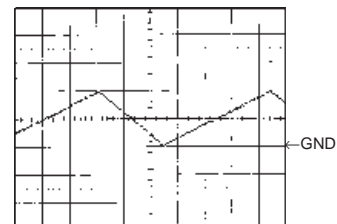
- ① J101-pin5 (AC, CLK)
V : 1V/div H : 5μsec/div



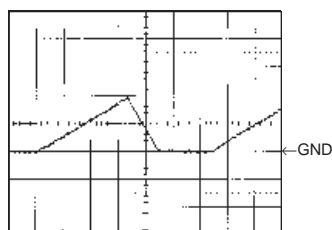
- ① TP308 (DH)
V : 2V/div H : 5μsec/div
② IC301-pin2
V : 5V/div H : 5μsec/div



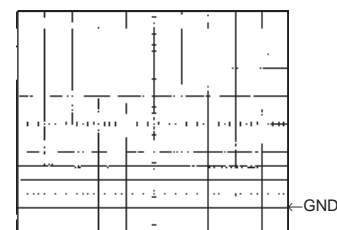
- ⑥ IC301-pin9
V : 2V/div H : 5μsec/div



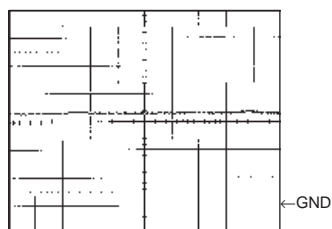
- ③ IC301-pin3
V : 2V/div H : 5μsec/div



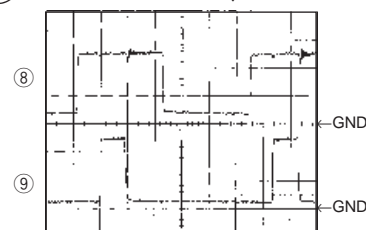
- ⑦ IC301-pin10
V : 2V/div H : 5μsec/div



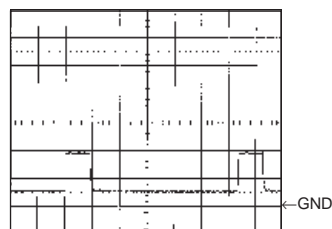
- ④ IC301-pin4
V : 2V/div H : 5μsec/div



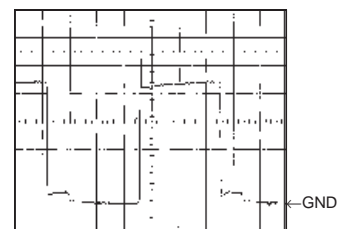
- ⑧ TP304 (H.OSC)
V : 2V/div H : 5μsec/div
⑨ TP305 (DH.BLK)
V : 2V/div H : 5μsec/div

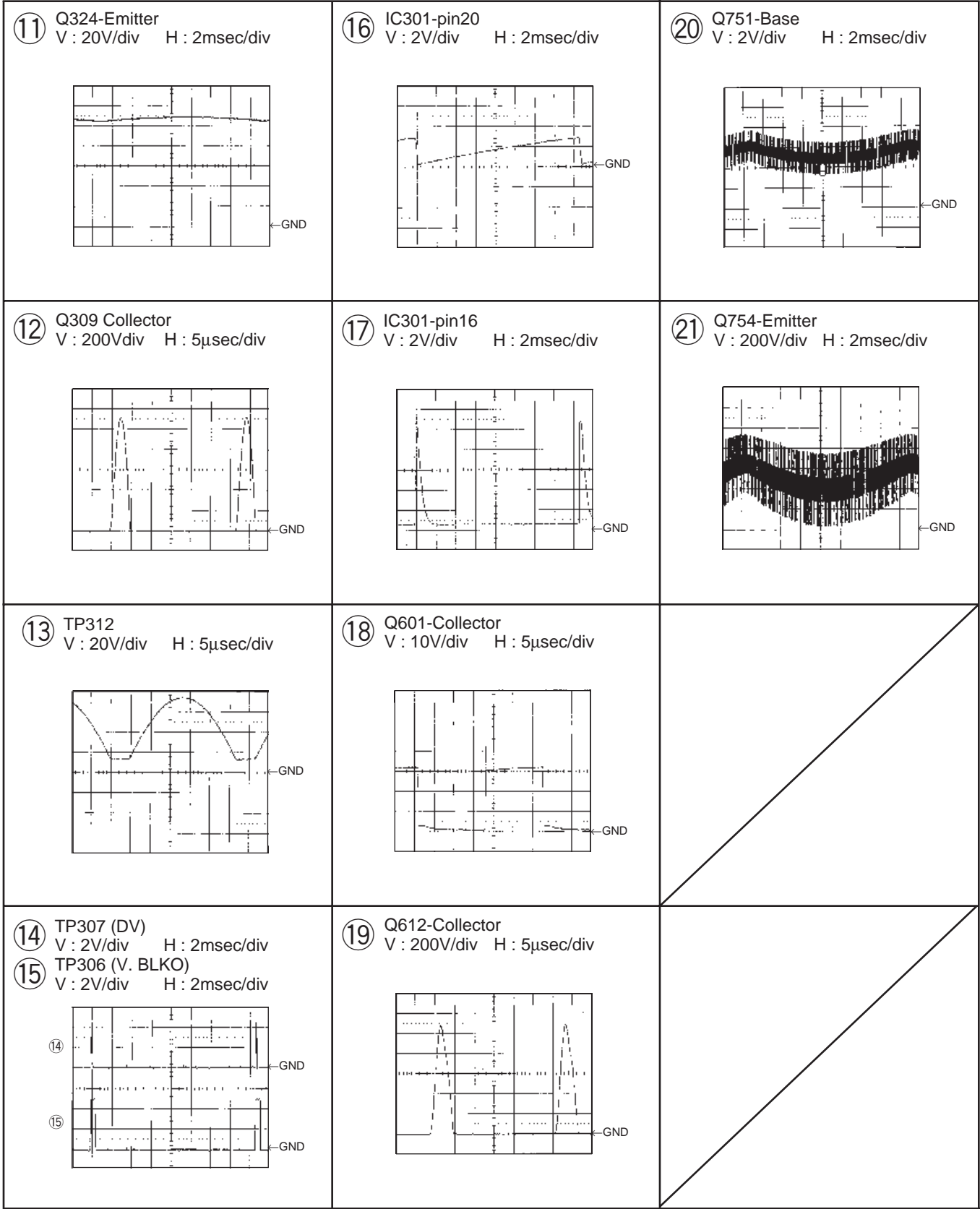


- ⑤ IC301-pin5
V : 2V/div H : 5μsec/div



- ⑩ Q308-Collector
V : 10V/div H : 5μsec/div





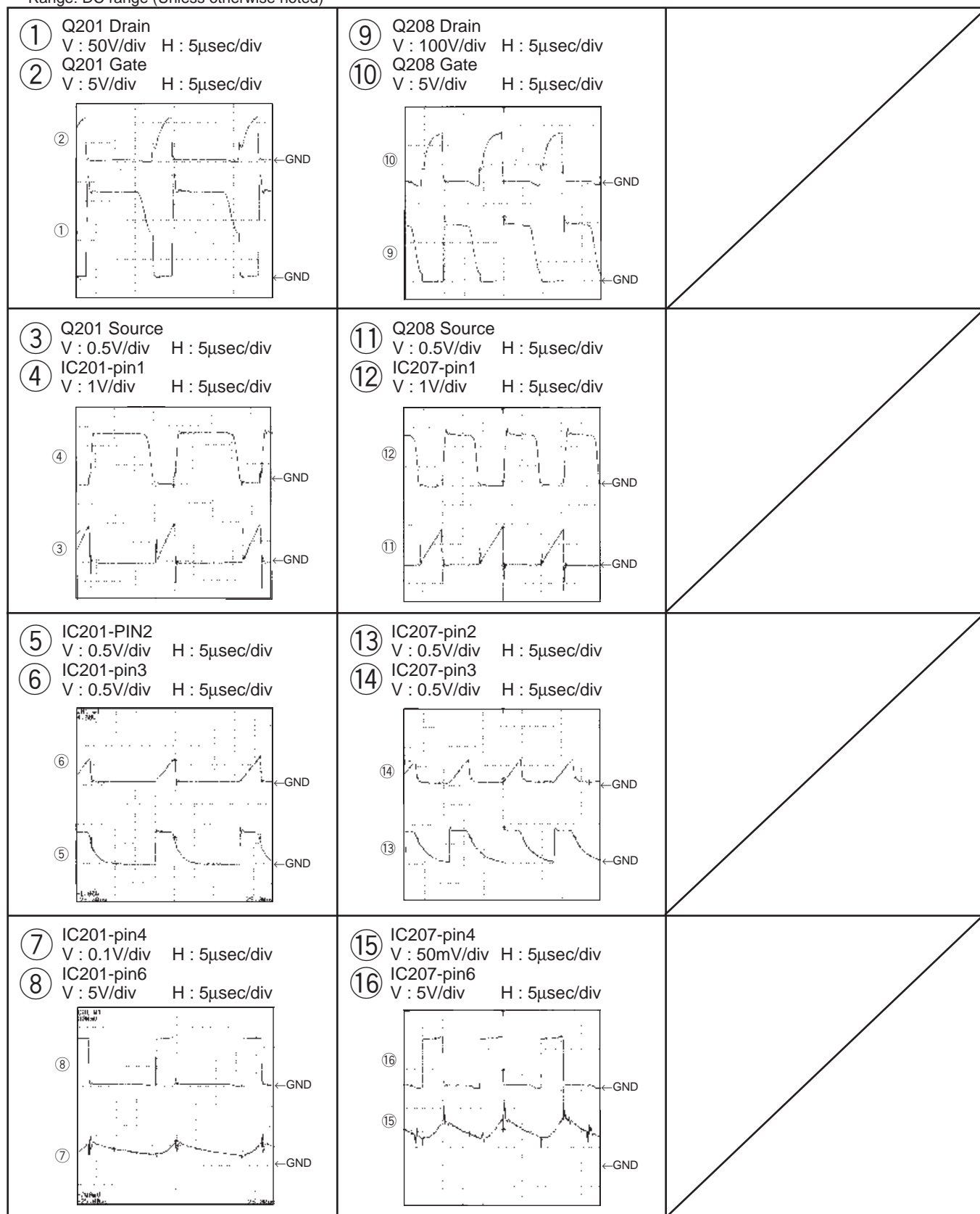
T POWER SUPPLY ASSY

Input signal

Video signal: Color bar (NTSC, EIA)

Picture quality: Standard

Range: DC range (Unless otherwise noted)



A3/3 TUNER u-COM ASSY (3/3)

IC2201 (PD5462B9)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	P:0, S:5.0	21	5.0	41	5.0	61	0
2	0	22	0	42	4.8	62	0
3	3.3	23	5.0	43	0.6	63	0
4	3.1	24	5.0	44	0.6	64	0
5	5.0	25	5.0	45	0	65	0
6	5.0	26	0	46	5.0	66	4.8
7	0.5	27	5.0	47	5.0	67	0
8	5.0	28	0	48	0	68	0
9	5.0	29	0	49	4.9	69	0
10	5.0	30	2.1	50	4.9	70	0
11	5.0	31	2.1	51	4.9	71	0
12	5.0	32	0	52	4.9	72	0
13	5.0	33	5.0	53	4.2	73	5.0
14	2.5	34	0	54	4.2	74	5.0
15	3.1	35	0	55	4.2	75	0
16	0.2	36	0	56	0	76	5.0
17	0	37	3.0	57	0	77	0
18	0	38	0	58	5.0	78	0
19	0	39	0	59	5.0	79	0.3
20	5.0	40	5.0	60	0	80	0.3

IC2202 (PD5463B9)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	1.1	14	5.0	27	5.0	40	5.0
2	0.2	15	0.8	28	5.0	41	0
3	P:0, S:5.0	16	5.0	29	5.0	42	5.0
4	4.8	17	5.0	30	5.0	43	5.0
5	4.6	18	5.0	31	0	44	5.0
6	0	19	0.1	32	0	45	10.5
7	5.0	20	0	33	0	46	0
8	0	21	0.2	34	5.0	47	0
9	0.8	22	0.5	35	5.0	48	0
10	0.8	23	0	36	5.0	49	0
11	0.7	24	2.3	37	5.0	50	0
12	0.6	25	2.3	38	5.0	51	0
13	2.0	26	0	39	5.0	52	0

NOTE:

P (PIONEER): AWV1715
S (SHARP) : AWV1723

IC2203 (PD5497B9)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	1.1	14	0	27	5.0	40	0
2	0.2	15	0	28	2.3	41	0
3	P:0, S:5.0	16	0	29	2.3	42	0
4	0	17	0	30	5.0	43	0
5	0	18	5.0	31	0	44	0
6	0	19	0.1	32	0	45	0
7	0	20	0	33	0	46	0
8	0	21	0.2	34	0	47	0
9	0	22	0.5	35	0	48	0
10	0	23	0	36	0	49	0
11	0	24	2.4	37	4.9	50	0
12	0	25	2.4	38	0	51	0
13	0	26	0	39	4.9	52	0

F CONVER.DAC ASSY

IC1401 (PA0053B)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0.4	10	0.1
2	1.3	11	0.3
3	5.0	12	-0.9
4	0	13	0.3
5	-0.9	14	1.2
6	0	15	0
7	-1.0	16	-1.8
8	0	17	1.2
9	-5.0	18	-1.2

IC1402 (PA0053B)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0.5	10	0
2	1.2	11	0.4
3	5.0	12	-0.9
4	0	13	0.3
5	-0.9	14	1.2
6	0	15	0
7	-1.0	16	-0.8
8	0	17	1.2
9	-5.0	18	-1.6

IC1403 (PM0011AS)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	22	-0.4
2	-0.9	23	0
3	0	24	0
4	-1.0	25	0
5	0	26	0
6	0	27	0
7	-5.0	28	0
8	5.0	29	0
9	-5.0	30	-0.3
10	5.0	31	5.0
11	5.0	32	5.0
12	5.0	33	5.0
13	5.0	34	5.0
14	-2.1	35	-5.0
15	0	36	0
16	-0.8	37	0
17	0	38	0
18	-1.1	39	0
19	0	40	0.4
20	0	41	0
21	5.0	42	0

IC1404 (MC14066BF)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	-5.0	8	0
2	-5.0	9	0
3	0	10	0
4	-0.9	11	0
5	0	12	0
6	0	13	4.3
7	-5.0	14	5.0

IC1405 (MC14052BF)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	9	5.0
2	0	10	5.0
3	0	11	0
4	0	12	0
5	0	13	0
6	0	14	0
7	-5.0	15	0
8	0	16	5.0

IC1406 (MC14052BF)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	9	5.0
2	-1.0	10	5.0
3	0	11	0
4	0	12	0
5	-1.0	13	0
6	0	14	0
7	-5.0	15	0
8	0	16	5.0

IC1408 (PM0011AS)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	22	-0.4
2	-0.9	23	0
3	0	24	0
4	-1.0	25	0
5	0	26	0
6	0	27	0
7	-0.5	28	0
8	0	29	0
9	-5.0	30	0.7
10	5.0	31	5.0
11	5.0	32	5.0
12	5.0	33	5.0
13	5.0	34	5.0
14	-2.0	35	-5.0
15	0	36	0
16	-0.8	37	0
17	0	38	0
18	-1.1	39	0
19	0	40	0
20	0	41	-0.2
21	5.0	42	0

IC1409 (PM0011AS)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	22	0
2	-0.9	23	0
3	0	24	0
4	-1.0	25	0
5	0	26	0
6	0	27	0
7	0	28	0
8	0	29	0
9	-5.0	30	0.4
10	5.0	31	5.0
11	5.0	32	5.0
12	5.0	33	5.0
13	5.0	34	5.0
14	-2.0	35	-5.0
15	0	36	0
16	-0.8	37	0
17	0	38	0.2
18	-1.1	39	0
19	0	40	0
20	0	41	0.3
21	5.0	42	0

IC1410 (PM0011AS)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	22	0
2	-0.9	23	0
3	0	24	0
4	-1.0	25	0
5	0	26	0
6	0	27	0
7	5.0	28	0
8	0	29	0
9	-5.0	30	0.5
10	5.0	31	5.0
11	5.0	32	5.0
12	5.0	33	5.0
13	5.0	34	5.0
14	-2.0	35	-5.0
15	0	36	0
16	-0.8	37	0
17	0	38	0
18	-1.1	39	0
19	0	40	0
20	0	41	-1.1
21	5.0	42	0

PRO-700HD

IC1411 (PM0011AS)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	22	0
2	-0.9	23	-0.5
3	0	24	0
4	-1.0	25	0
5	0	26	0
6	0	27	0
7	5.0	28	0
8	5.0	29	0
9	-5.0	30	-0.7
10	5.0	31	5.0
11	5.0	32	5.0
12	5.0	33	5.0
13	5.0	34	5.0
14	-2.1	35	-5.0
15	0	36	0
16	-0.8	37	0
17	0	38	0
18	-1.1	39	0
19	0	40	0
20	0	41	-0.5
21	5.0	42	0

IC1412 (PM0011AS)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	22	-0.4
2	-0.9	23	-0.5
3	0	24	0.2
4	-1.0	25	0
5	0	26	0
6	0	27	0
7	0	28	0
8	5.0	29	0
9	-5.0	30	-0.5
10	5.0	31	5.0
11	5.0	32	5.0
12	5.0	33	5.0
13	5.0	34	5.0
14	-2.1	35	-5.0
15	0	36	0
16	-0.8	37	0
17	0	38	0
18	-1.1	39	0
19	0	40	0.1
20	0	41	0.2
21	5.0	42	0

N1/3 AV I/O ASSY (1/3)


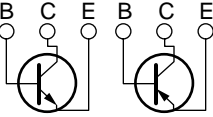

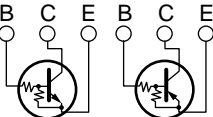

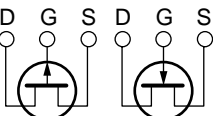
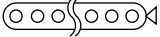
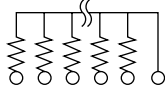

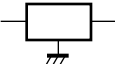
IC6001 (CXA2069Q)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	4	21	-	41	3.9
2	4.5	22	4	42	8.8
3	4	23	4.5	43	4.5
4	4.5	24	4	44	3.8
5	4.5	25	4.5	45	4.5
6	-	26	4.5	46	-
7	-	27	-	47	4.5
8	4	28	-	48	-
9	4.5	29	4.5	49	4
10	4	30	4	50	4.5
11	4.5	31	4.5	51	4.5
12	4.5	32	-	52	4.5
13	-	33	-	53	3.9
14	-	34	-	54	4.5
15	4	35	0	55	-
16	4.5	36	-	56	3.3
17	4	37	4.5	57	0
18	4.5	38	4.5	58	4.5
19	4.5	39	3.8	59	4.5
20	-	40	4.5	60	4

4. PCB CONNECTION DIAGRAM

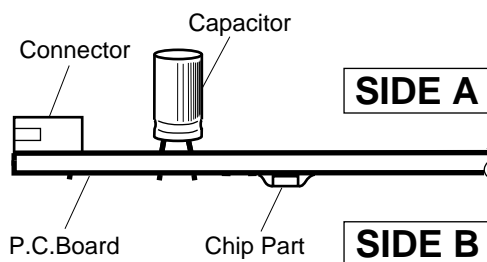
NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

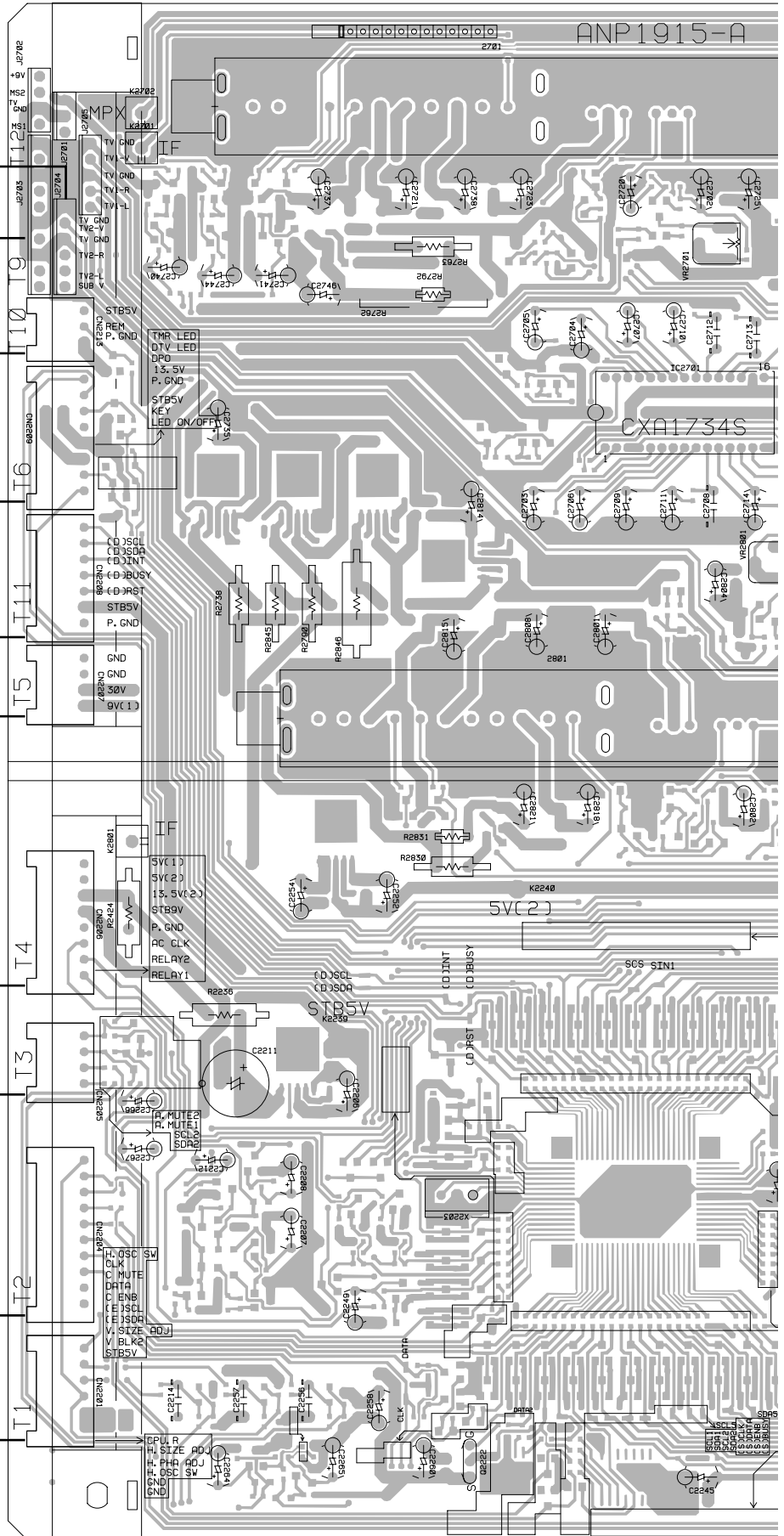
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

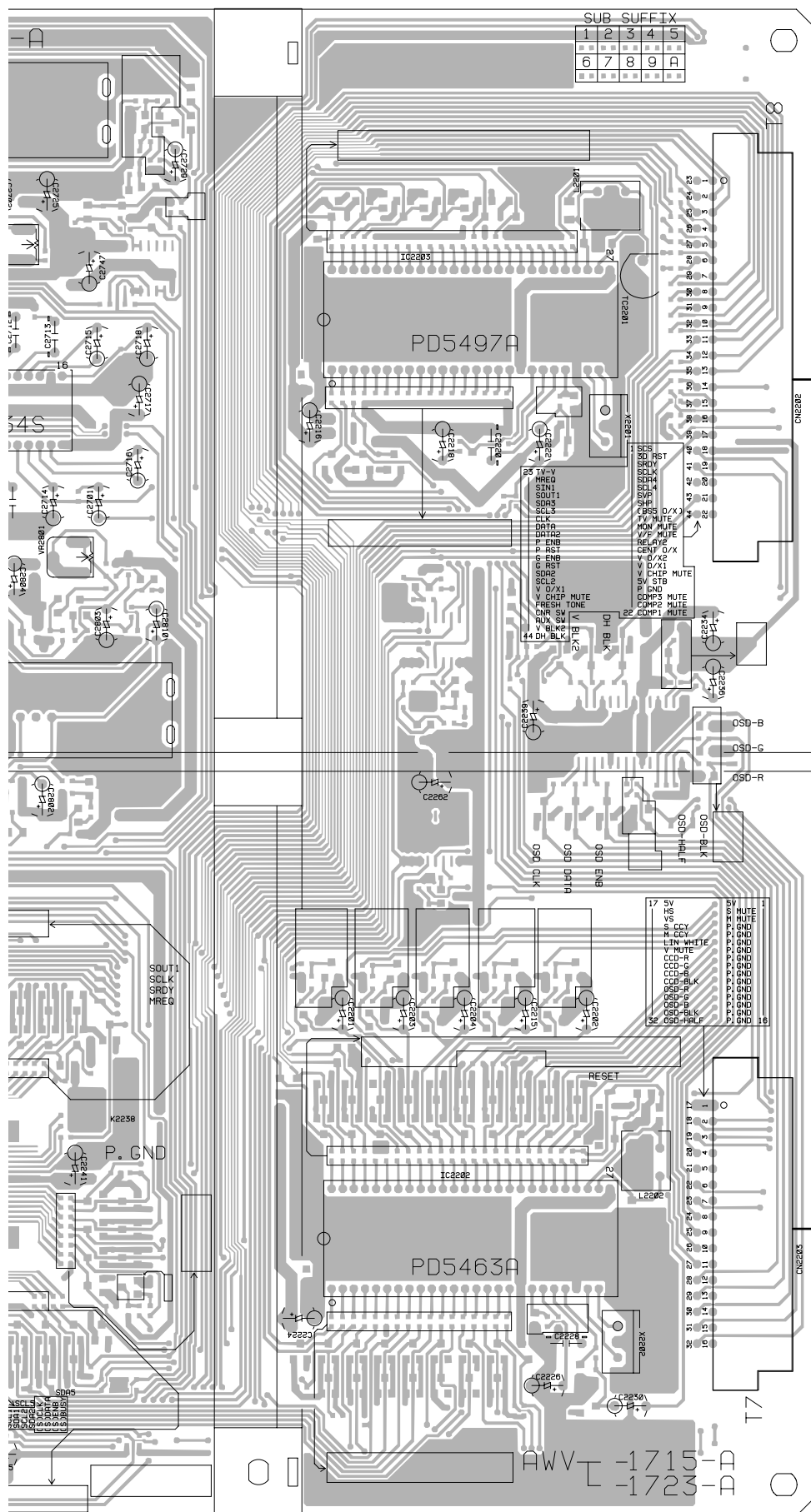
3. The parts mounted on this PCB include all necessary parts for several destination.
- For further information for respective destinations, be sure to check with the schematic diagram.

4. Viewpoint of PCB diagrams



4.1 TUNER u-COM ASSY

A TUNER u-COM ASSY**N** CN6002 **A5****H** SR BNC ASSY
J5024 **V2****J** FRONT CONTROL
ASSY CN209 **E2**DTV SET TOP
BOX SH-D07**T** CN209 **E2****T** CN210 **E1****E** CN1205 **G7****E** CN908 **G4****S** CN308 **K2**

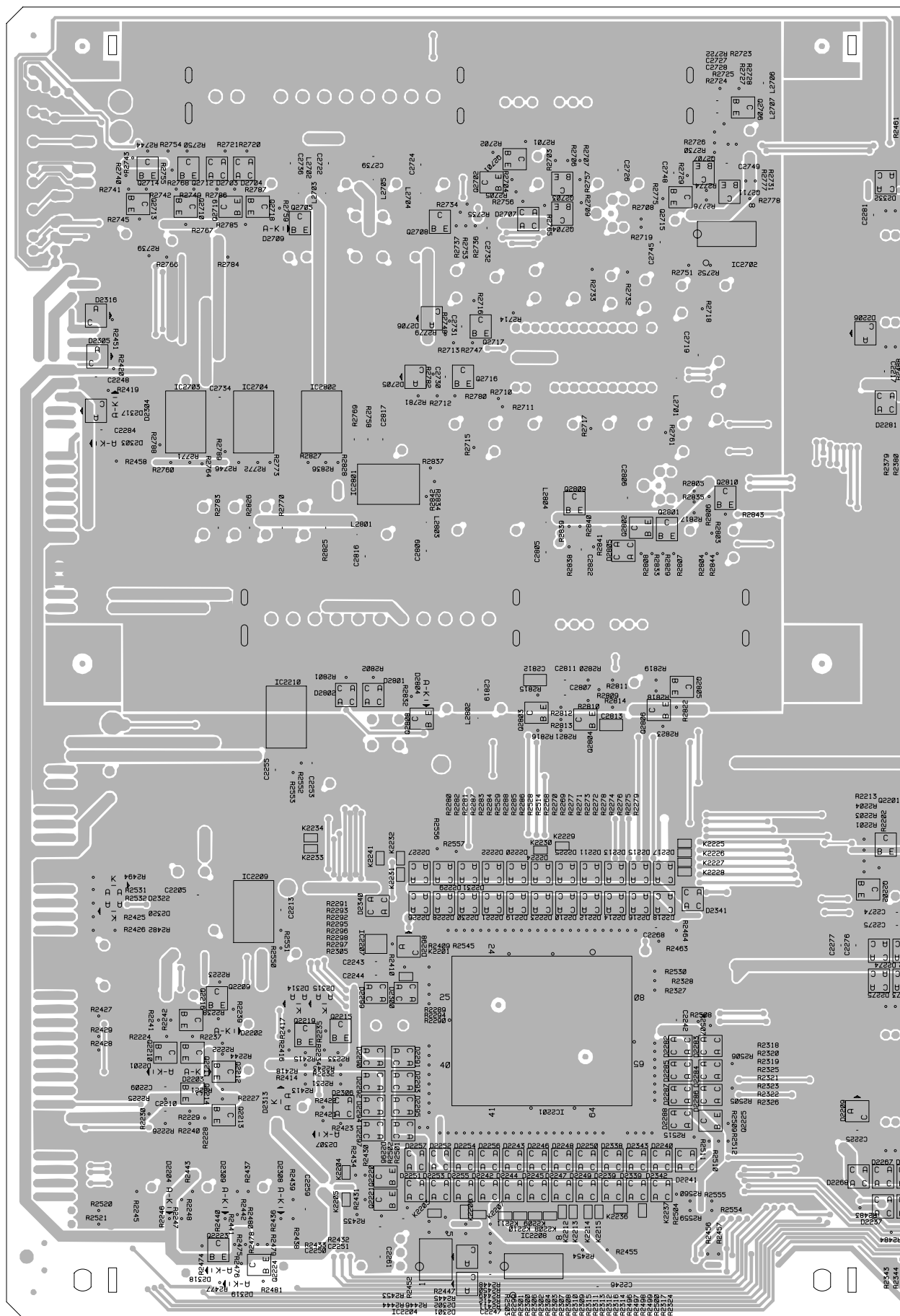


VR2801

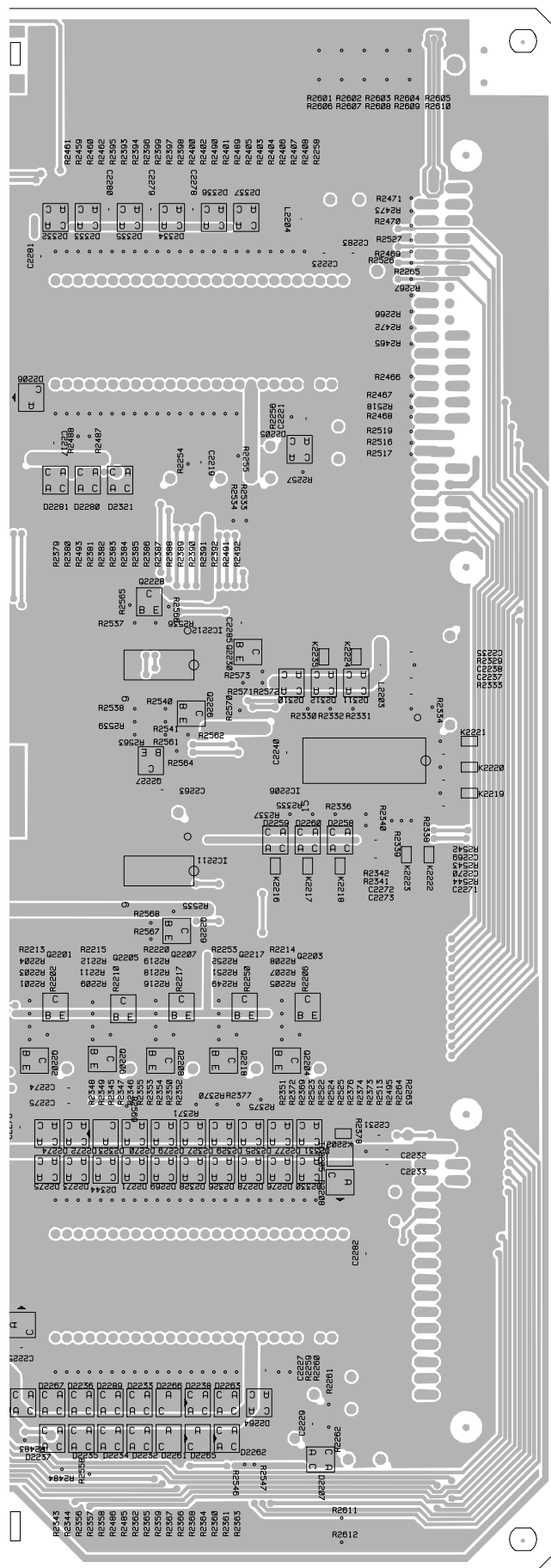
Q2222

D

A TUNER u-COM ASSY



SIDE B



Q2706

Q2714 Q2712 Q2702 Q2701 Q2703 Q2707 Q2711
Q2713 Q2710 Q2705 Q2704 Q2715 IC2702

Q2717

IC2703 IC2704 IC2802 Q2809 Q2810 Q2228
Q2805 Q2802 Q2801 IC5515

Q2227 IC2206

IC2210 Q2808 Q2803 Q2804 Q2805 IC2211

Q2201 Q2205 Q2207 Q2229 Q2217 Q2203

IC2209 Q2202 Q2206 Q2208 Q2218 Q2204

IC2207

Q2216 Q2209 Q2219 Q2215

Q2210 Q2211 Q2212

Q2214
Q2213 Q2225

Q2220

Q2221

Q2223 Q2224 IC2208

IC2204

PRO-700HD
4.2 VIDEO ASSY

B-a

B VIDEO ASSY

A CN2202 T7

N CN6404 A8

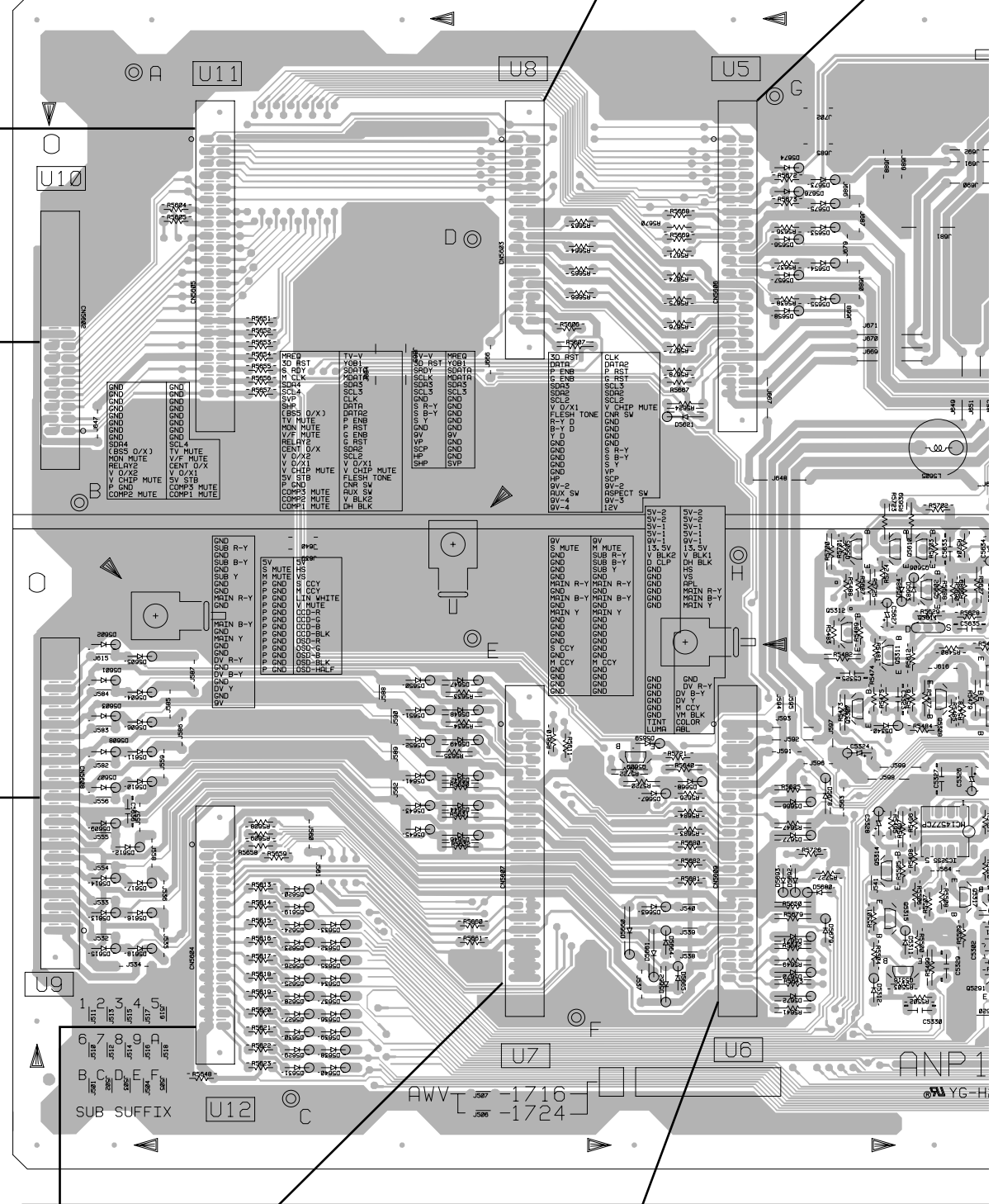
N CN6201 A9

A CN2203 T8

D CN7600 X2

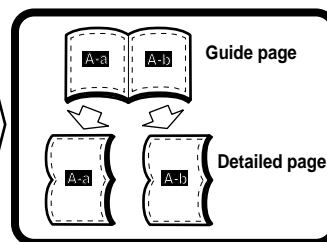
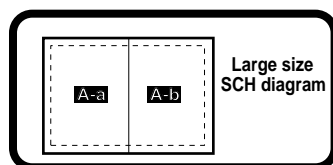
C CN3802 Y3

D CN7800 X3



- Q5605
- Q5610
- Q5606
- Q5602
- Q5611
- Q5610
- Q5312
- Q5311
- Q5307
- Q5314
- Q5609
- Q5315
- Q5316
- Q5310
- Q5309
- Q5308
- IC5255
- Q529
- Q5317
- Q5291Q

B

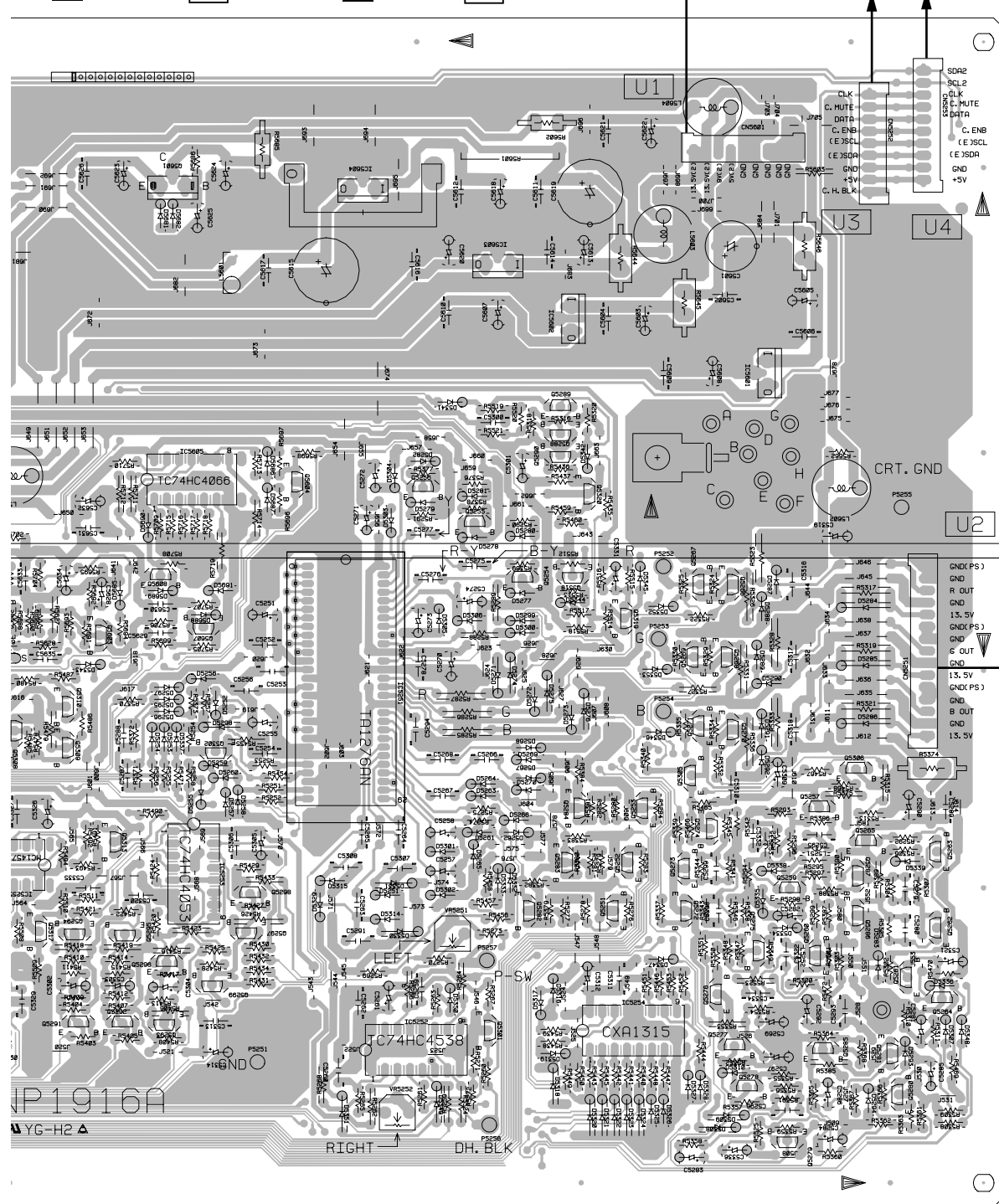


→ **C** CN3801 **Y2**

T CN204 **E3**

AUTO CONVER

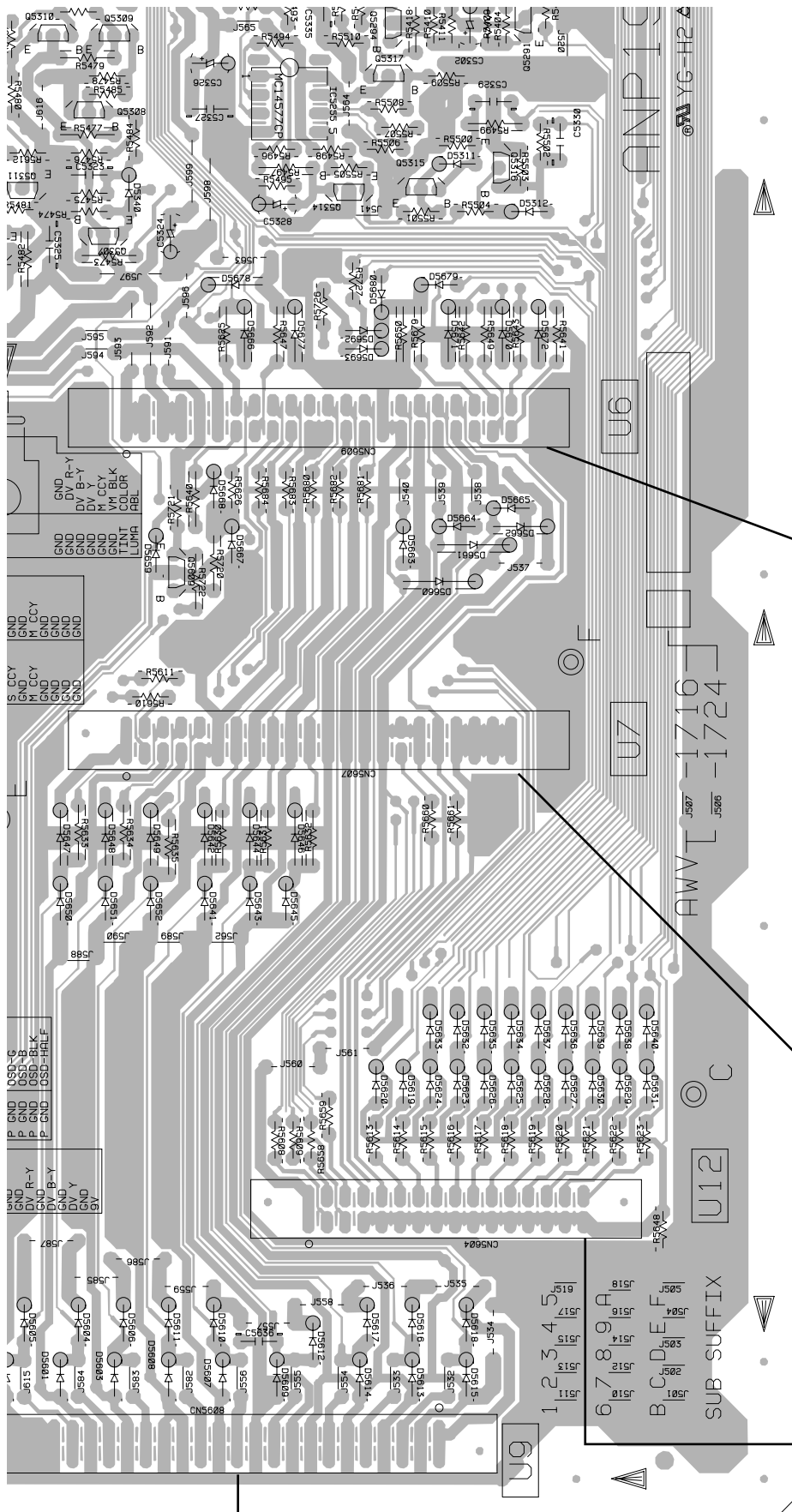
SIDE A



R, G, B CRT DRIVE ASSY
(P1: CN5201, N1: CN5151, M1: CN5101)

VR5252 VR5251

[illegible]



N CN6201 A9

A CN2203 T8

D CN7600 X2

C CN3802 Y3

B-a B-b

- Q5605
- Q5610
- Q5606
- Q5602
- Q5600
- Q5312
- Q5311
- Q5307
- Q5308
- Q5314
- Q5309
- Q5317
- Q5310
- Q5308
- Q5294
- Q5317
- Q5315
- Q5316
- Q5291Q52

B-a

B-a B-b

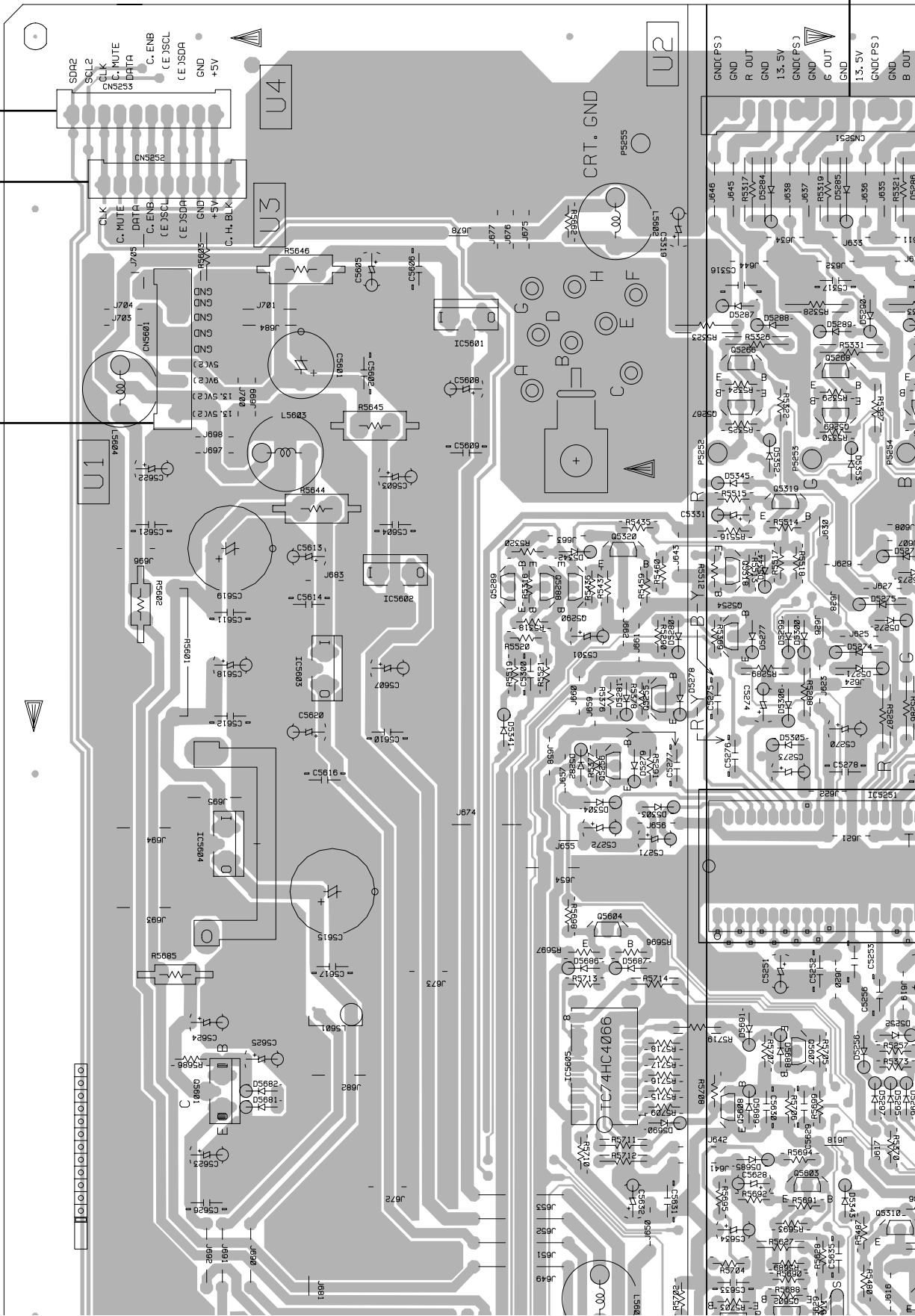
AUTO CONVER

T CN204 E3

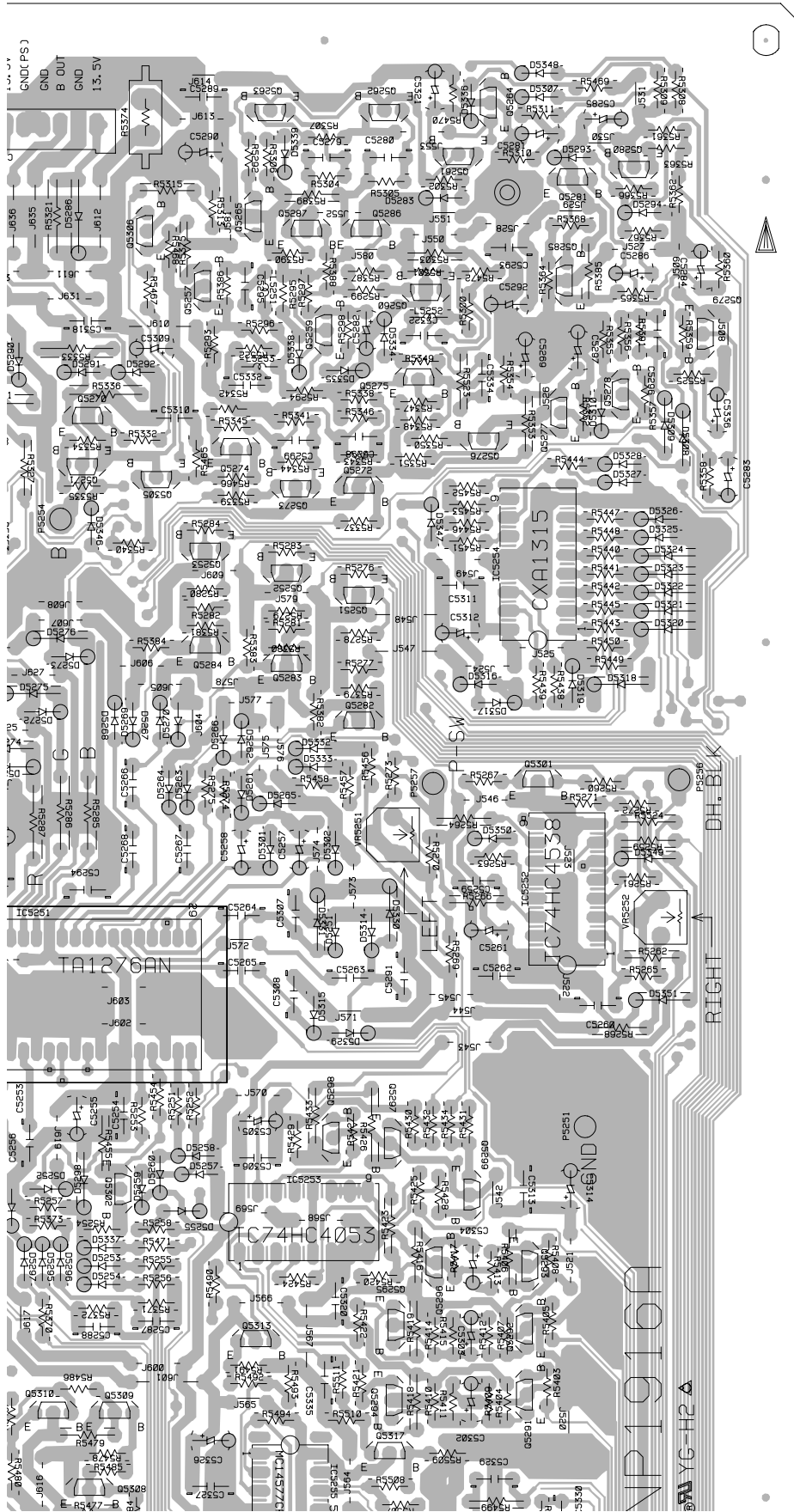
C CN3801 Y2

SIDE A

CT DRIVE ASSY
01, N1: CN5151, M1: CN5101



B-b



VR5252 VR5251

- | | | |
|--------|--------|--------|
| Q5501 | IC5604 | IC5601 |
| IC5605 | Q5256 | Q5267 |
| Q5608 | IC5251 | Q5269 |
| Q5603 | Q5255 | Q5266 |
| Q5310 | Q5254 | Q5271 |
| Q5309 | Q5318 | Q5305 |
| IC5253 | Q5284 | Q5270 |
| Q5295 | Q5283 | Q5274 |
| Q5294 | Q5282 | Q5253 |
| Q5317 | Q5301 | Q5252 |
| Q5291 | IC5252 | Q5275 |
| Q5292 | Q5301 | Q5276 |
| Q5293 | Q5252 | Q5277 |
| | IC5254 | Q5278 |
| | | Q5280 |

B-a B-b

B-b

B VIDEO ASSY

A

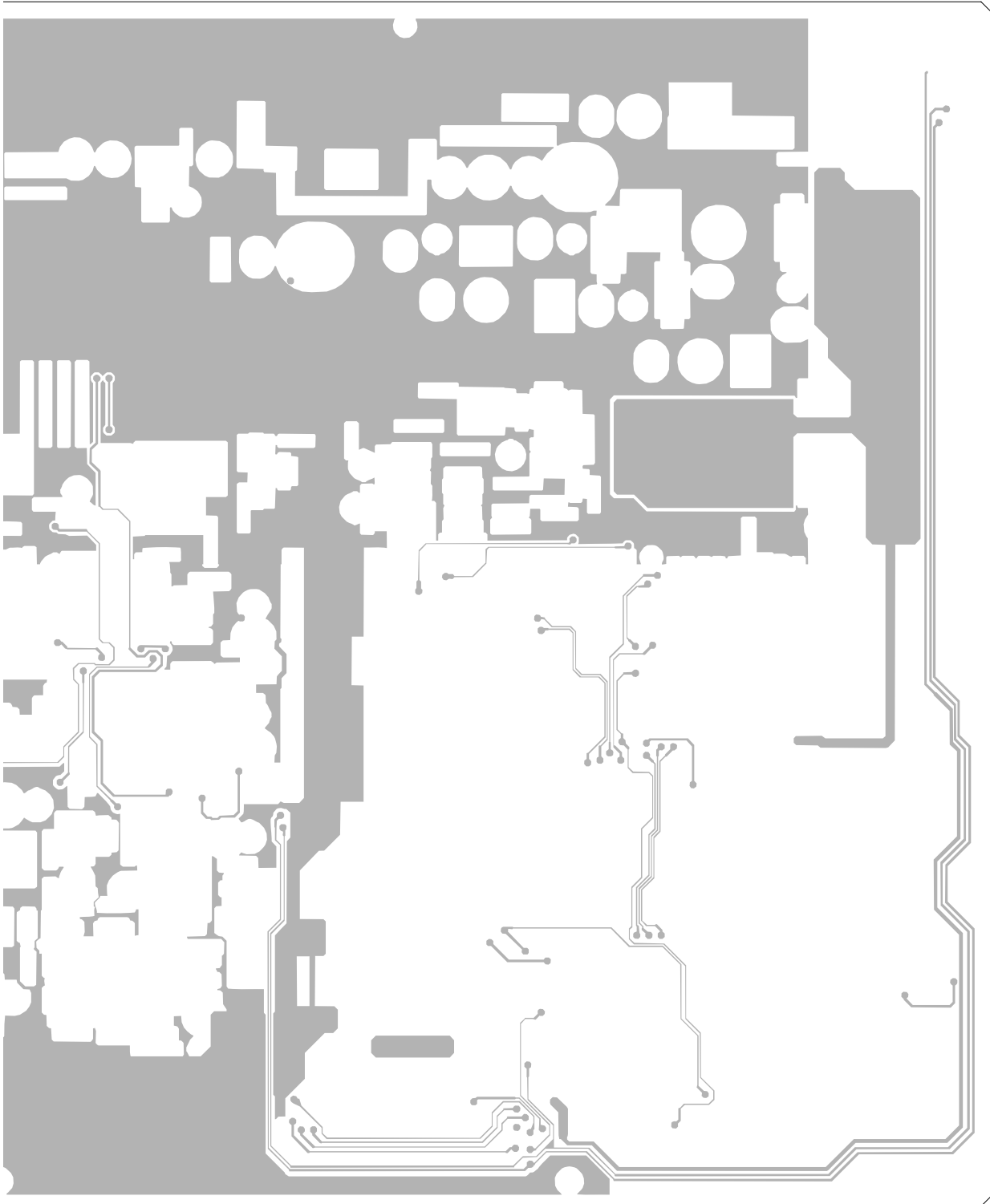
B

C

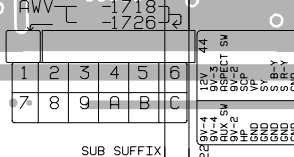
D



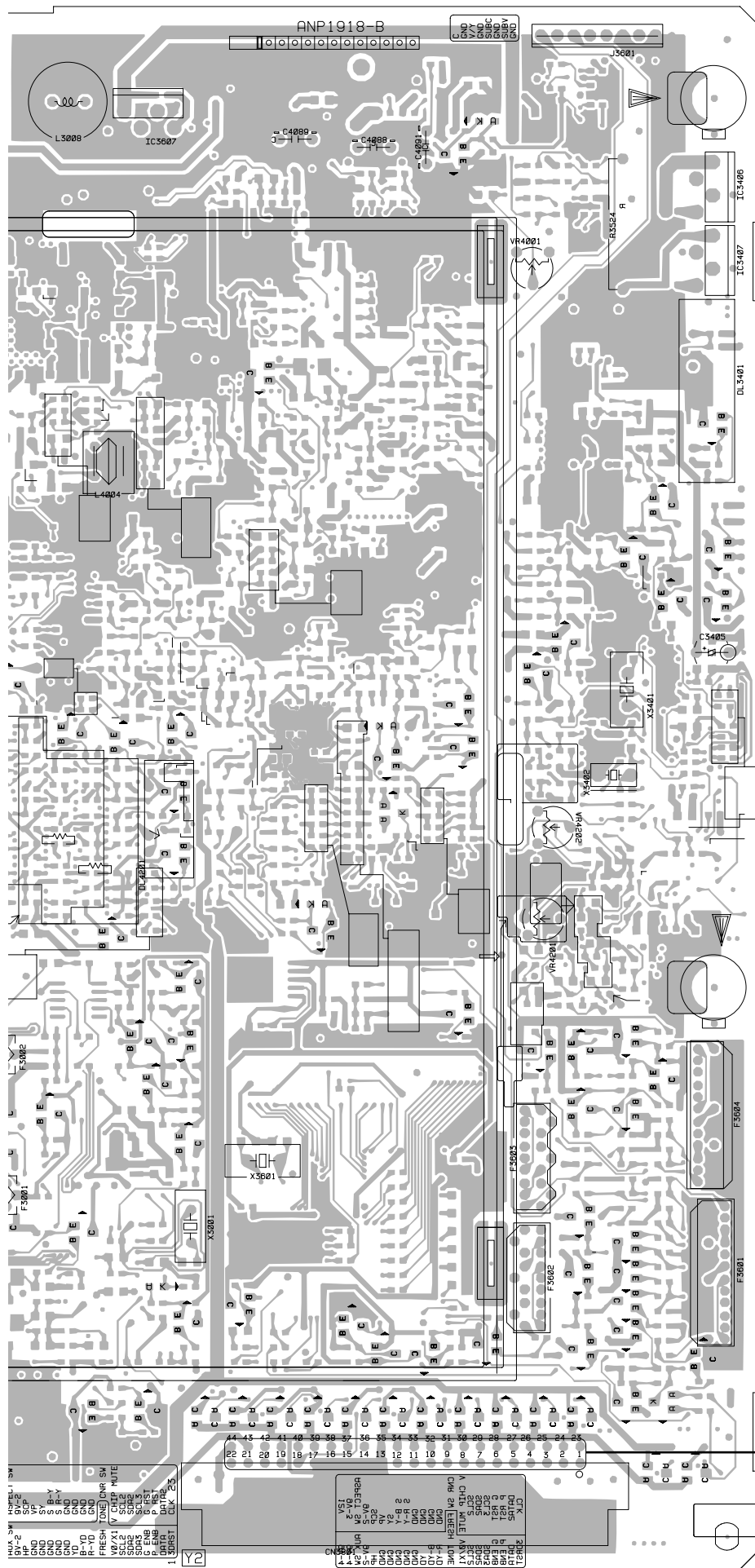
SIDE B



C

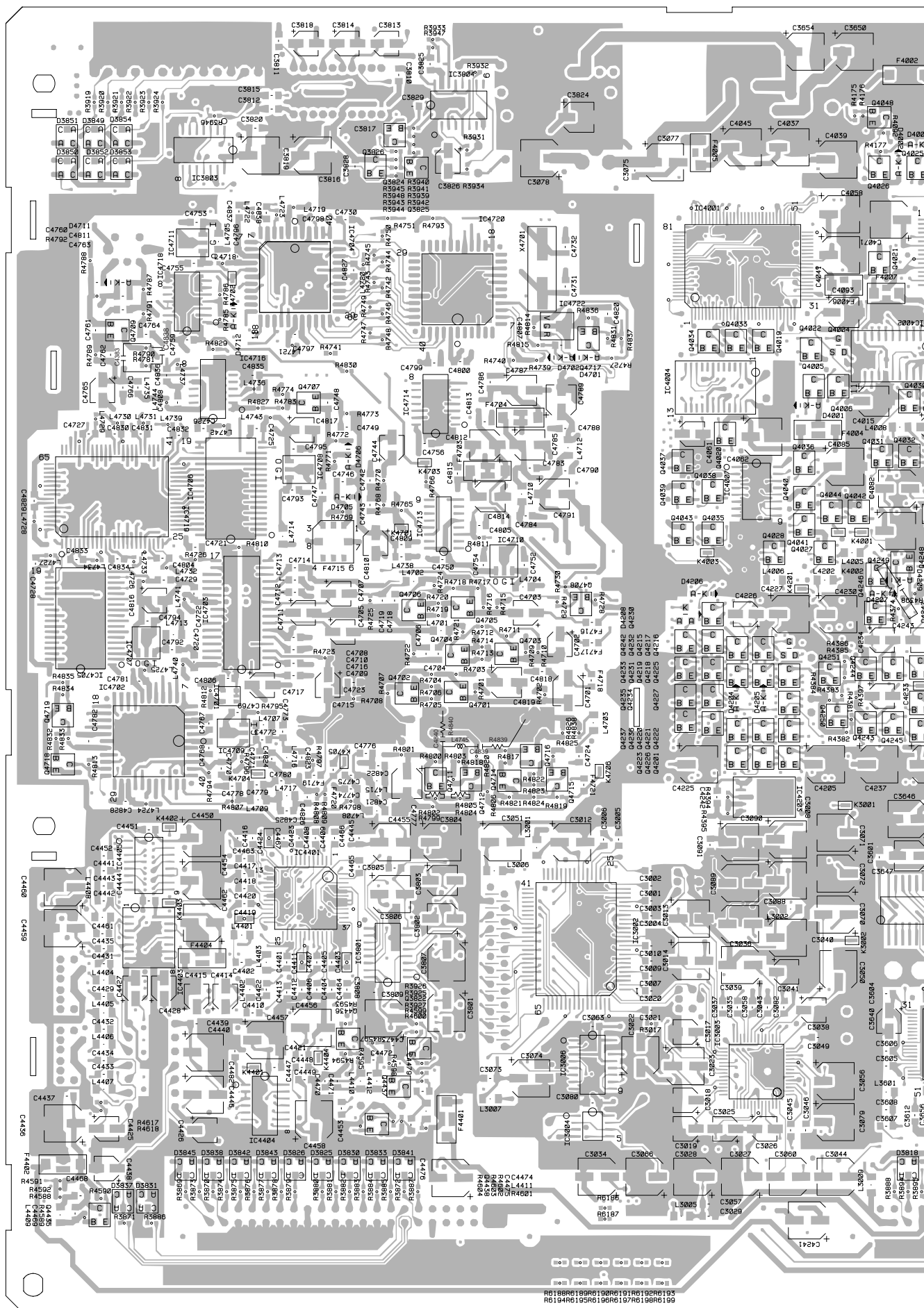


SIDE A



B CN5606[U5]

- VR4001 VR3801
- IC3407 IC3005 IC3802
- IC3406 IC3607
- IC4402 IC3001

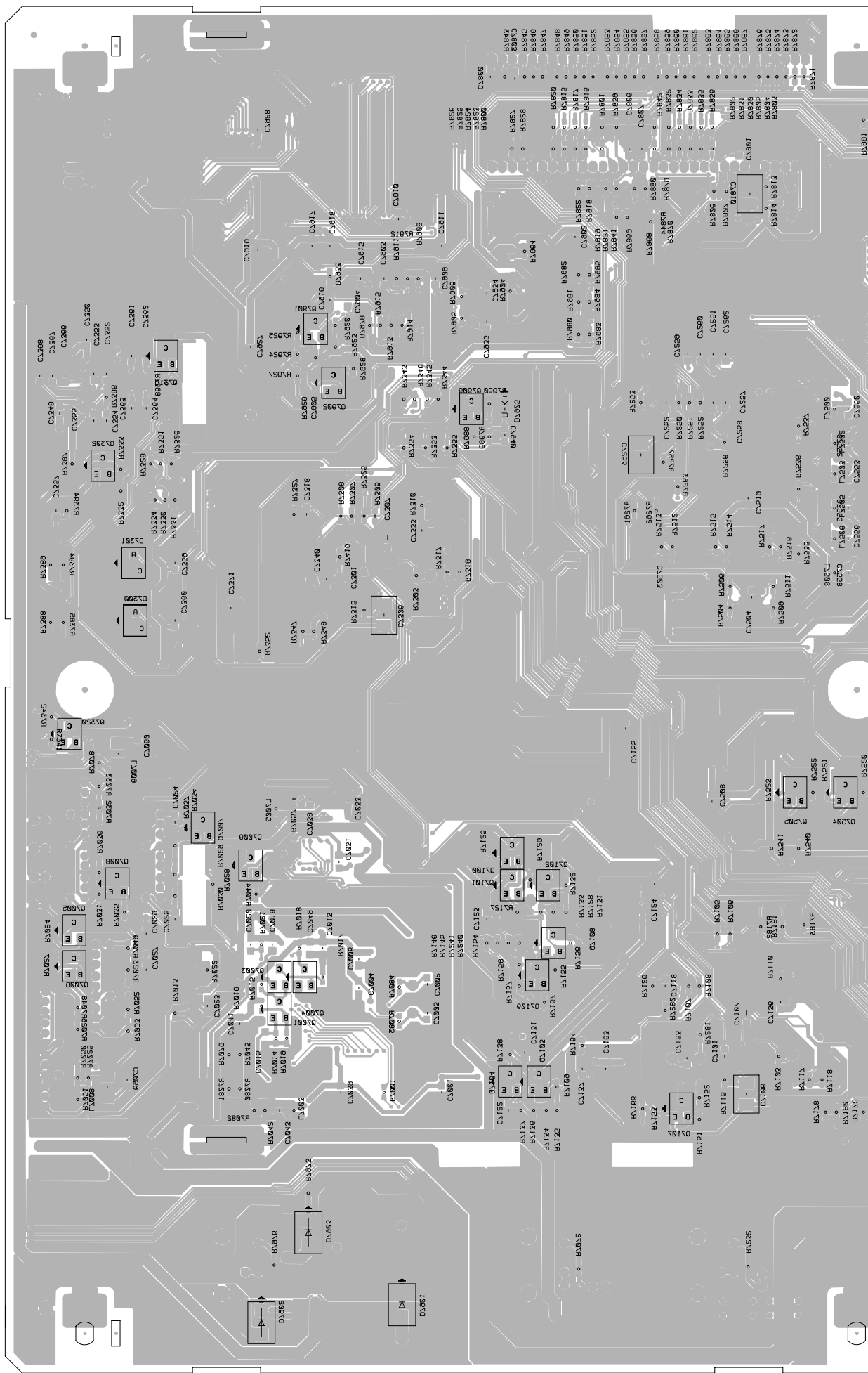


PRO-700HD
4.4 SIGNAL ASSY

D SIGNAL ASSY

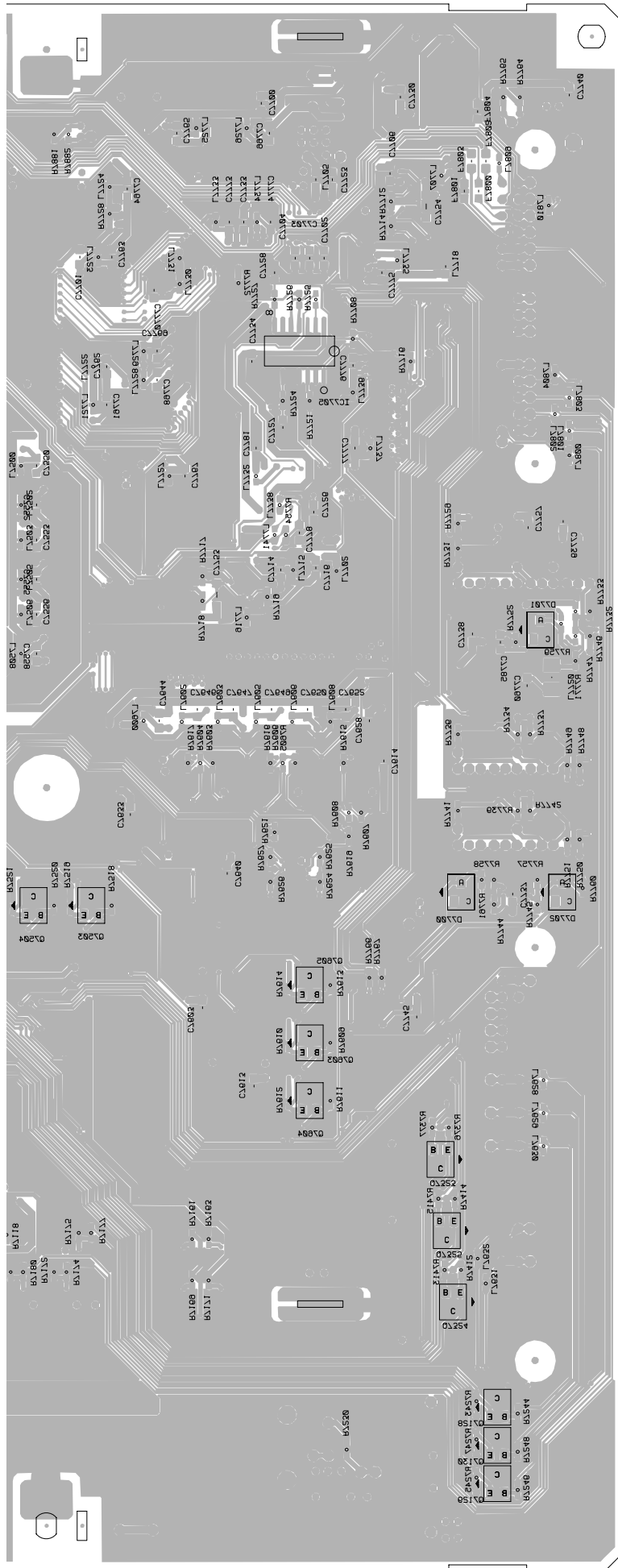
N CN6003 A4

T CN204 E3



SIDE B

PRO-700HD



Q7901 IC7705

Q7311 Q7902 Q7909

Q7302

Q7320

Q7007 Q7009 Q7505 Q7504 Q7503

Q7008 Q7100 Q7102 Q7101

Q7002 Q7108 Q7603

Q7005 Q7003 Q7604 Q7323

Q7004 Q7001 Q7109

Q7104 Q7325

Q7107 Q7324

Q7904 Q7128

Q7130

Q7129

IC7007 IC7106 IC7105

PRO-700HD

4.5 AMP ASSY

E AMP ASSY

DEFLECTION YORK(H,V)

TO AUTO CONVERTER

A CN2204 T2

S CN306 K3

T CN206 E5

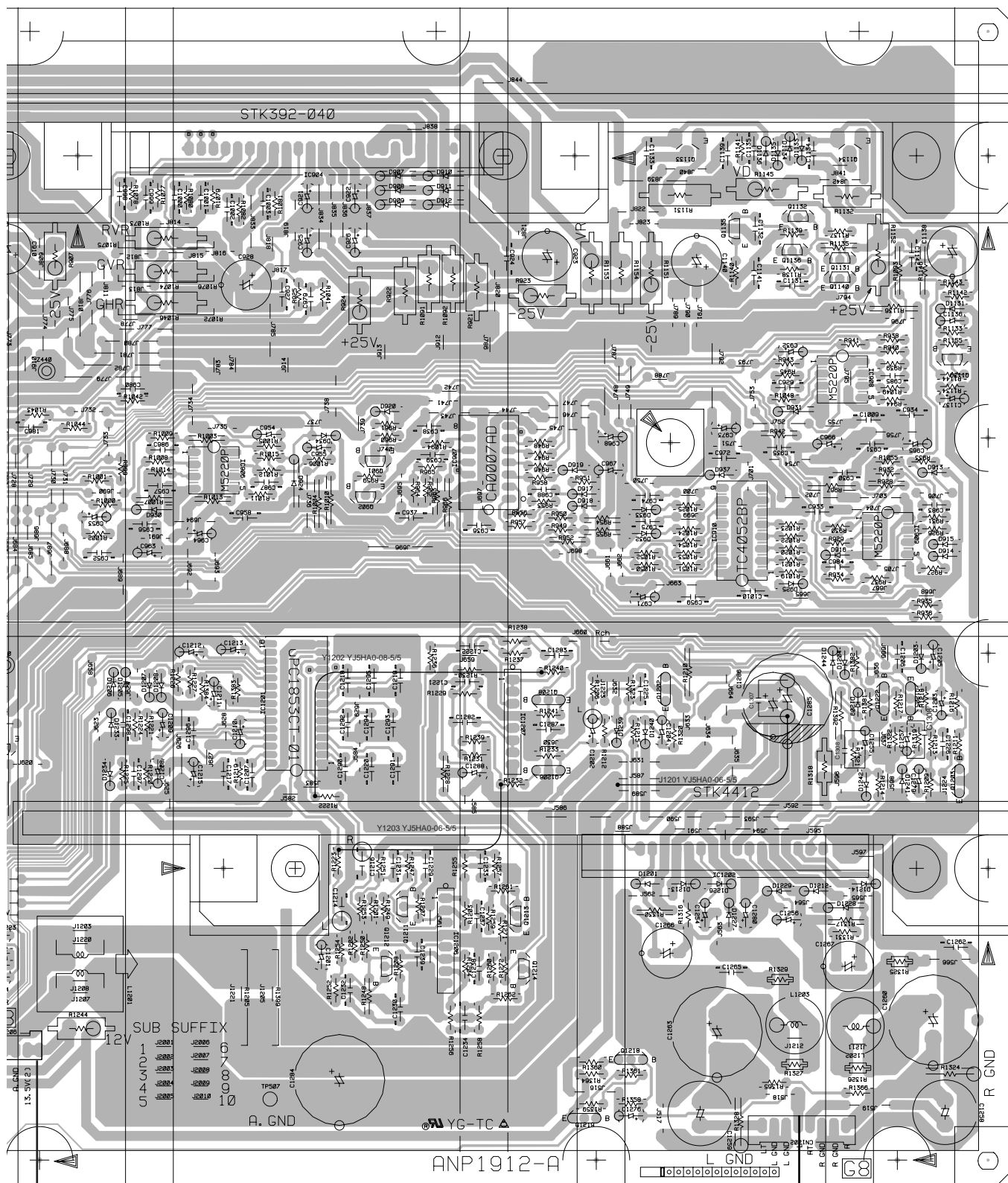
A CN2206 T4

N CN64

IC6651	Q1138	Q1137	Q921	Q908	Q924	IC903	Q913	Q912
	Q907	IC902	Q905	Q909		Q910	Q915	Q916
	Q922	IC901	Q904	IC913		IC905	IC1210	IC1203
	Q923	IC911	Q903	IC1204		Q911	Q1224	
	IC1171	IC912	Q906	Q1220		Q914	Q1223	
		Q1171	IC1205			Q1226	Q1225	



SIDE A



CN211 [E4]

CN6403 [A1]

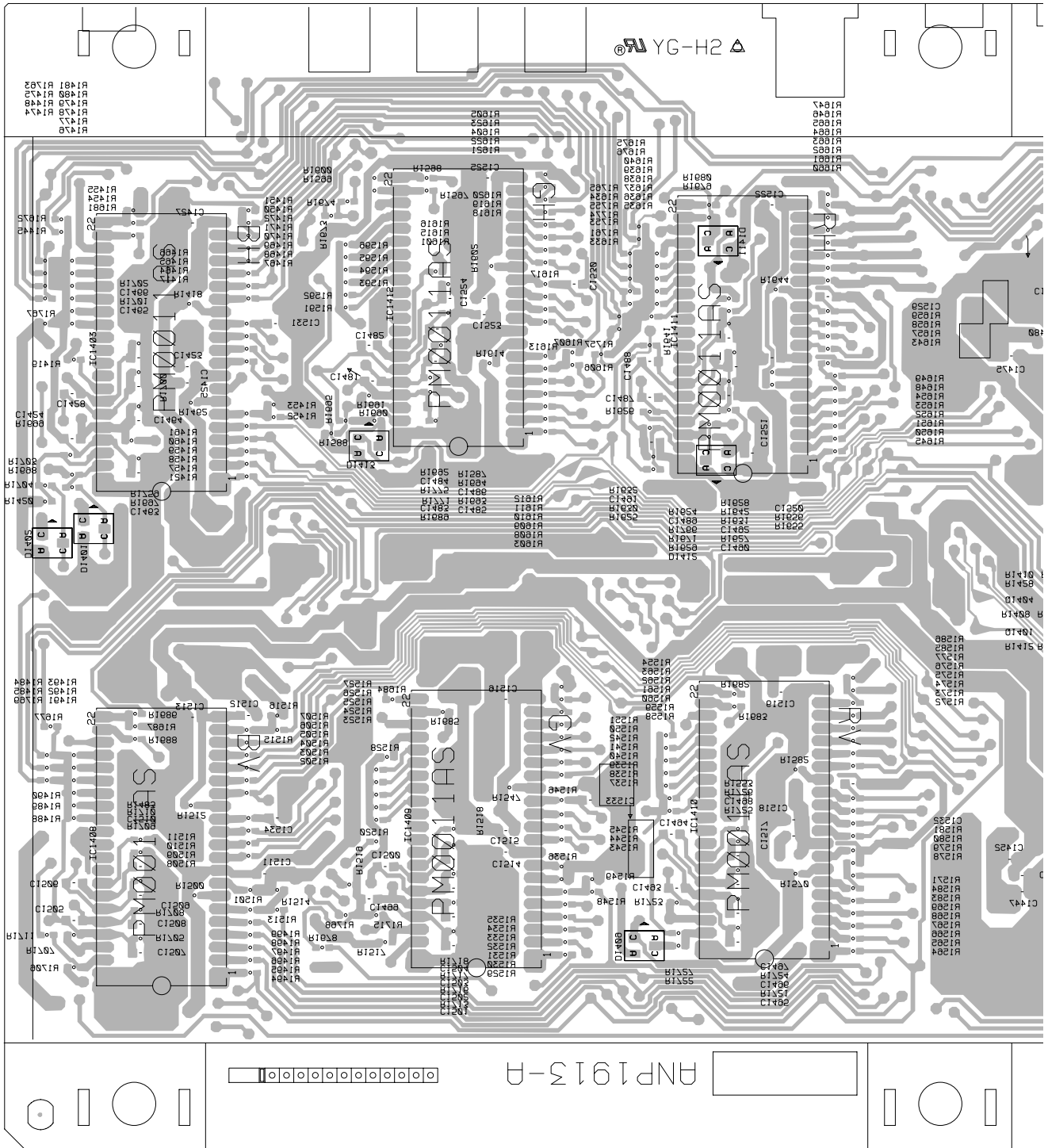
TO SPEAKER

IC904	Q901	IC907	Q1208	Q1133	Q1132	Q1134	Q1139
IC906	Q902	IC1206	Q1206	Q1135	Q1136	Q1131	Q1205
IC1201	Q1211	IC1207	Q1218	IC910		Q1140	Q1203
	Q1212	Q1213	Q1219	Q1202		IC908	
		Q1214		IC1202		IC909	
						Q1222	



4.6 CONVER.DAC ASSY, CONNECTOR ASSY

F CONVER.DAC ASSY

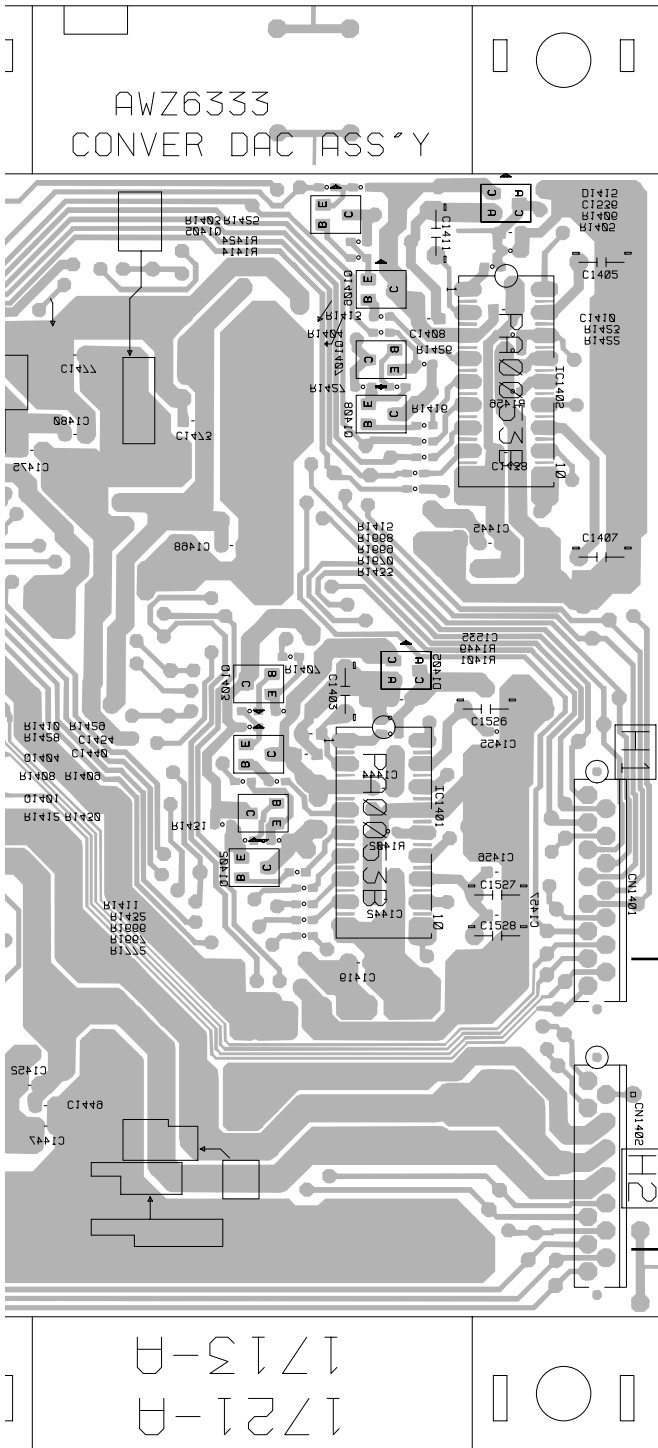


IC1403
IC1405

IC1412
IC1409

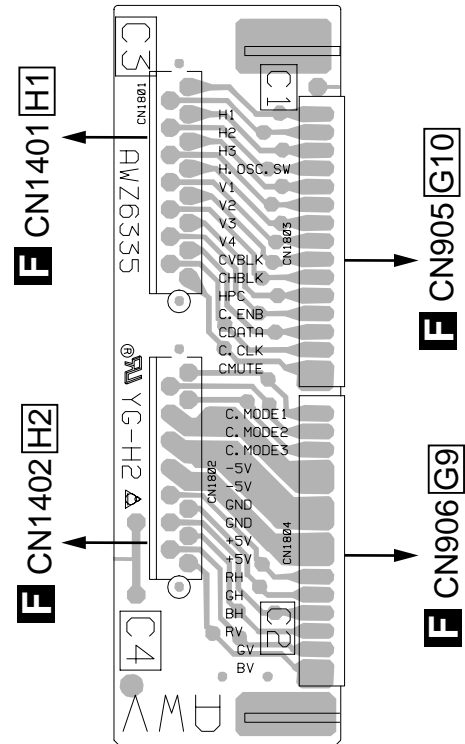
IC1411
IC1410

SIDE A



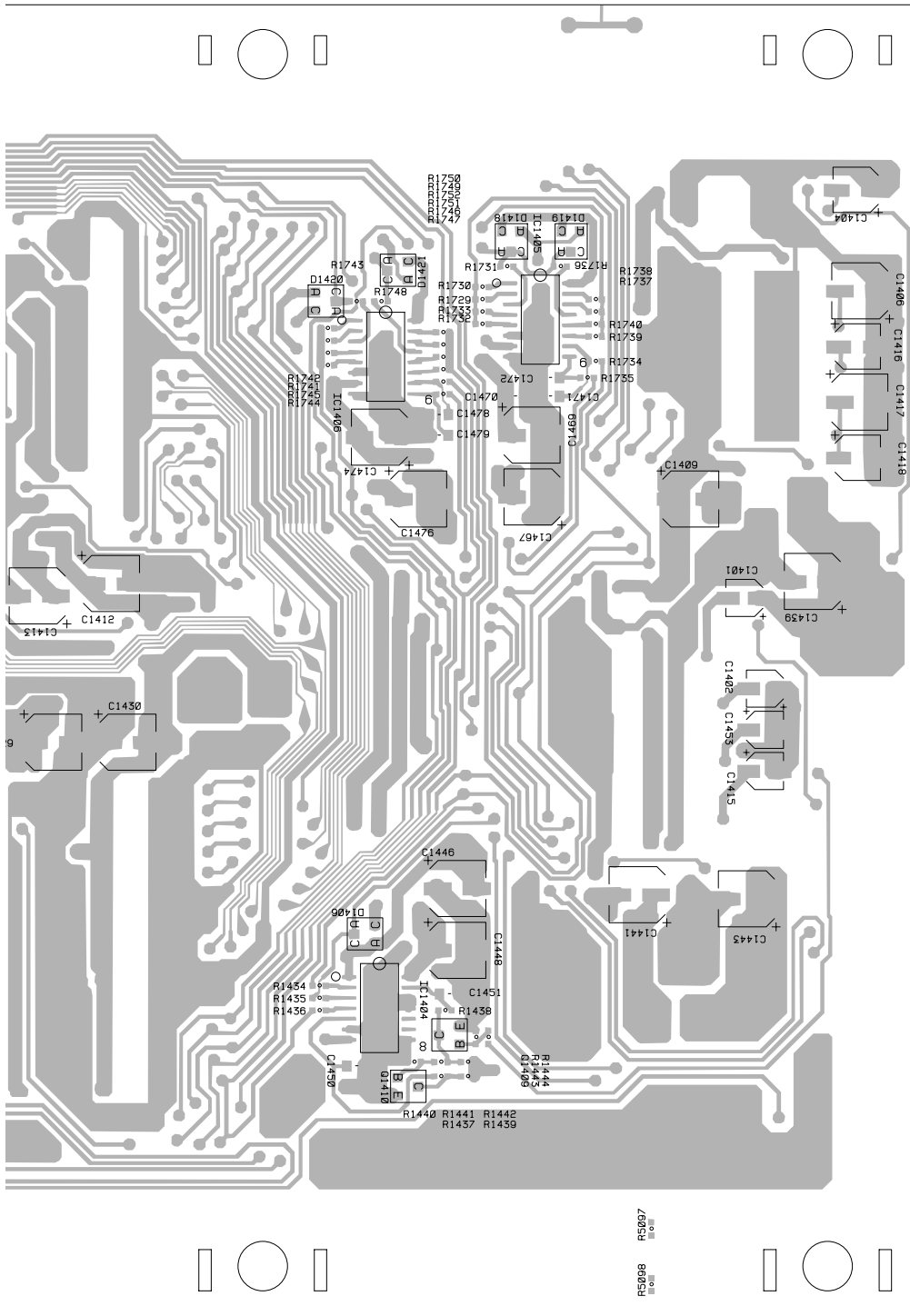
G CONNECTOR ASSY

SIDE A



F

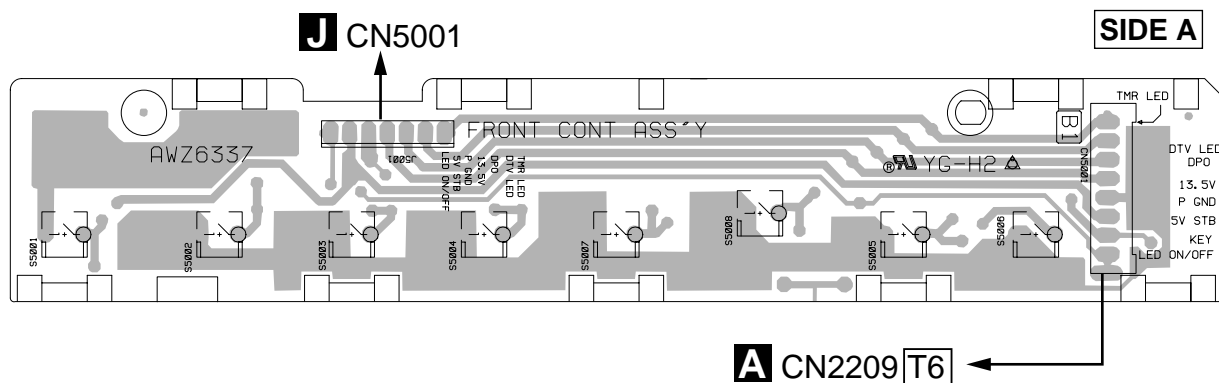
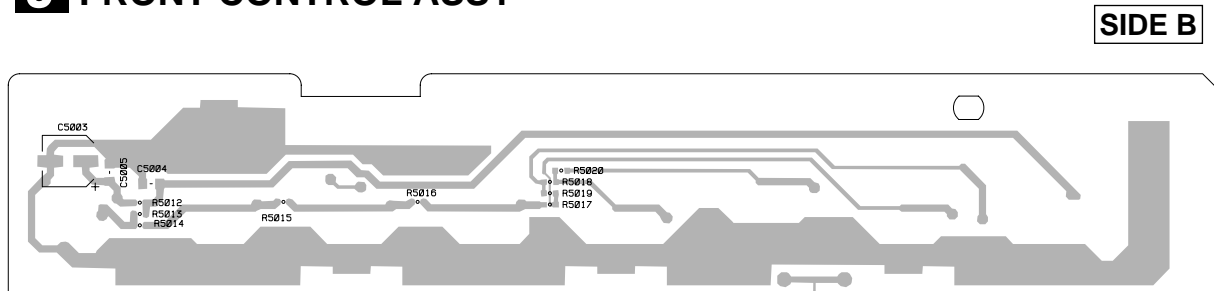
SIDE B



IC1404 Q1410 IC1405
Q1409

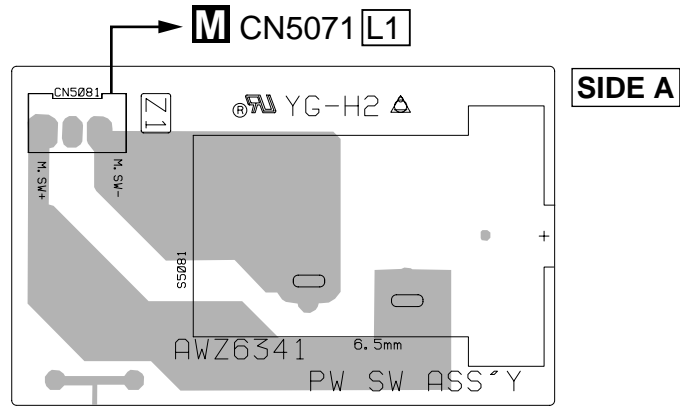
PRO-700HD

4.7 FRONT CONTROL ASSY

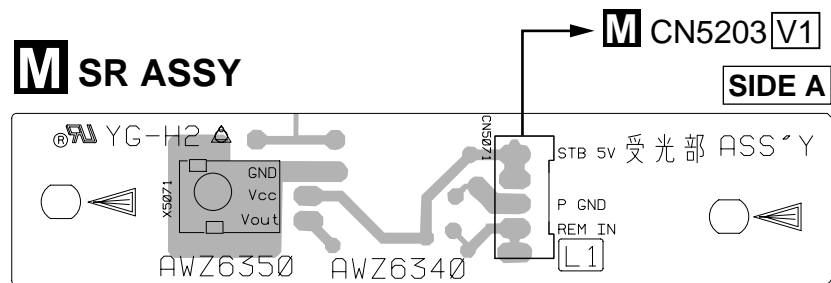
J FRONT CONTROL ASSY**J** FRONT CONTROL ASSY

4.10 POWER SW ASSY, SR ASSY

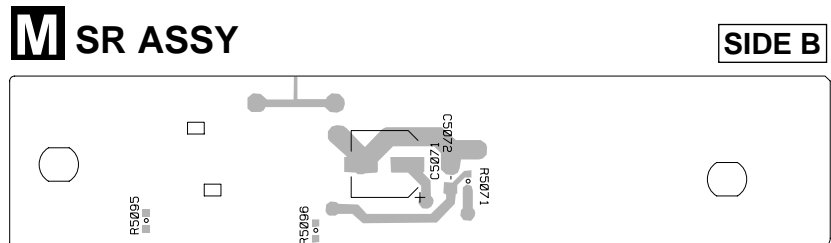
L POWER SW ASSY



M SR ASSY

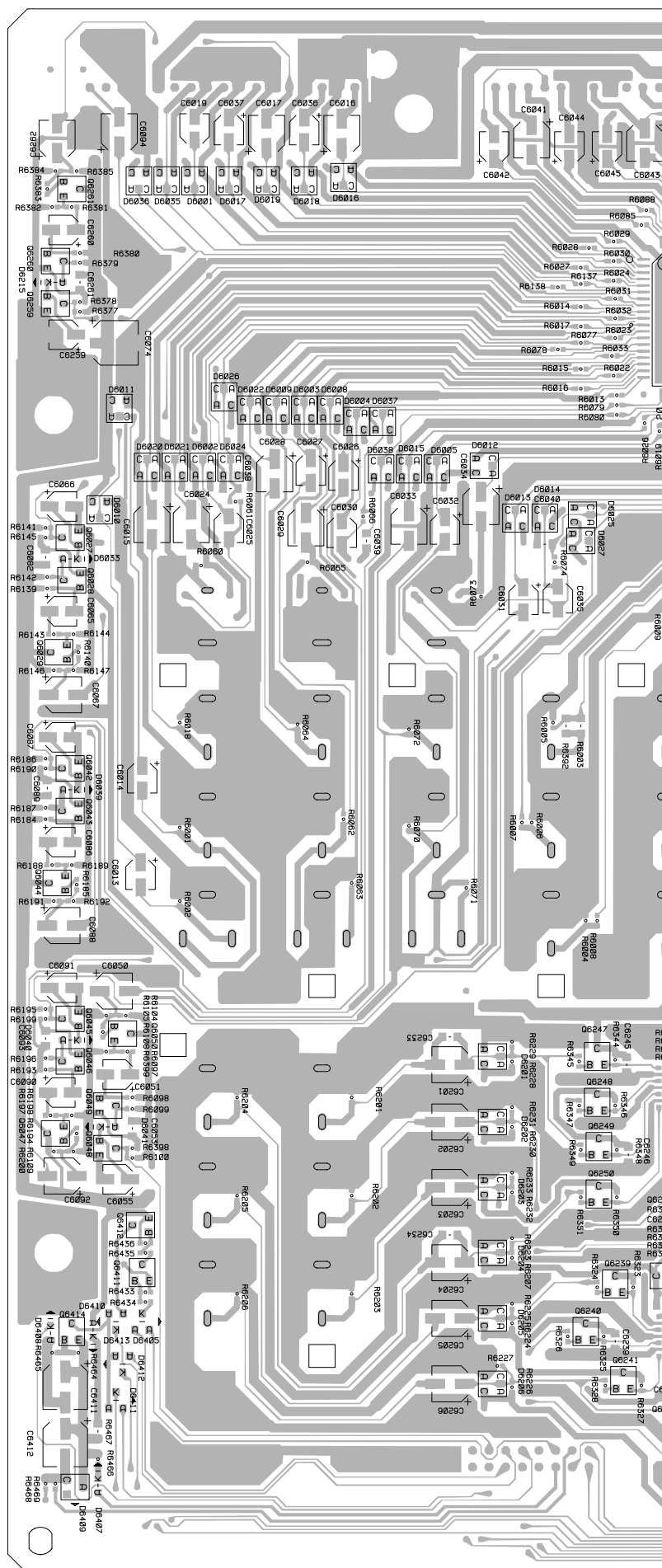


M SR ASSY

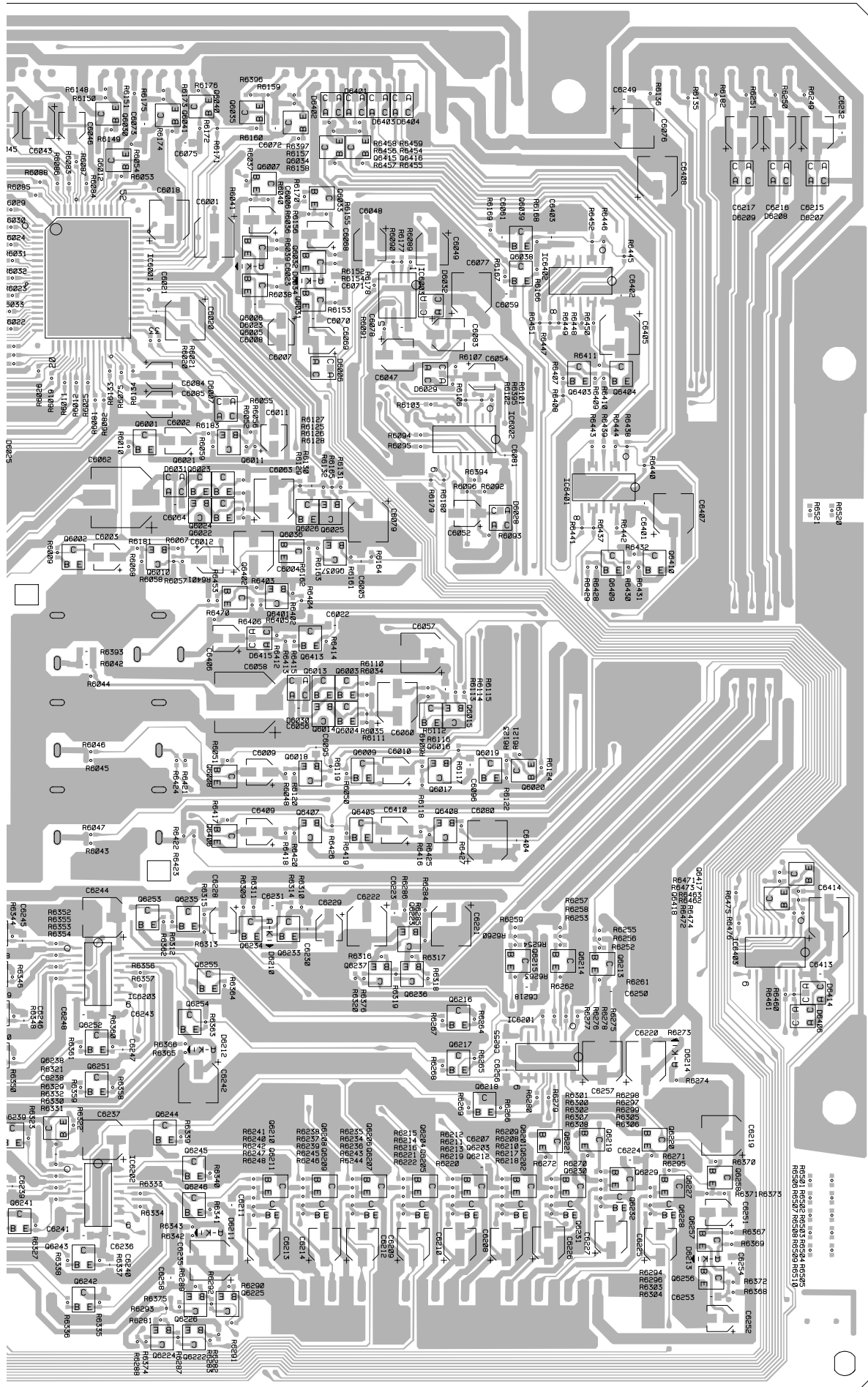


N AV I/O ASSY

Q6416	Q6039	Q6404	IC6401	Q6410	Q6015	Q6020	Q6417	Q6235	IC6403	Q6236	Q6216	IC6201	Q6220	Q6258	Q6212	Q6257	Q6256	Q62222
Q6415	Q6033	Q6403	IC6025	Q6409	Q6004	Q6019	Q6418	Q6253	Q6213	Q6237	Q6254	Q6218	Q6219	Q6227	Q6246	Q6228	Q6225	Q62242
Q6034	IC6402	Q6031	Q6025	Q6037	Q6014	Q6017	Q6408	Q6247	Q6214	Q6255	IC6203	Q6217	Q6221	Q6229	Q6241	Q6232	Q6226	Q6242
Q6035	Q6038	Q6006	Q6036	Q6010	Q6003	Q6016	Q6405	Q6050	Q3215	Q6248	Q6252	Q6251	Q6201	Q6230		Q6231	Q6243	
Q6007	IC6003	Q6005	Q6024	Q6029	Q3013	Q6018	Q6407	Q6045	Q6233	Q6049	Q6249	Q6238	Q6204	Q6202		Q6234		
Q6040	Q6032		Q6022		Q6413	Q6008	Q6406		Q6234	Q6046	Q6048	Q6250	Q6206	Q6203				
Q6041	IC6001		Q6002		Q6042	Q6044				Q6047		Q6412	Q6210	Q6205				
Q6030	Q6030		Q6011		Q6043								Q6244	Q6209				
Q6012	Q6260		Q6023										Q6239	Q6211				
Q6261			Q6021										Q6411	Q6245				
			Q6001										IC6202					
			Q6027										Q6240					
			Q6028										Q6414					



SIDE A



2
N AV I/O ASSY

4
A J2703 **T9**

3
I CN5041 **F1**

D

H J5025 **V3**

24
17 COMP SHUTE COMP INUTE 1
V CHIP MUTE
RECEIVED
V EXL
V/F MUTE
SSOX
TXX
8

DTV SET TOP BO

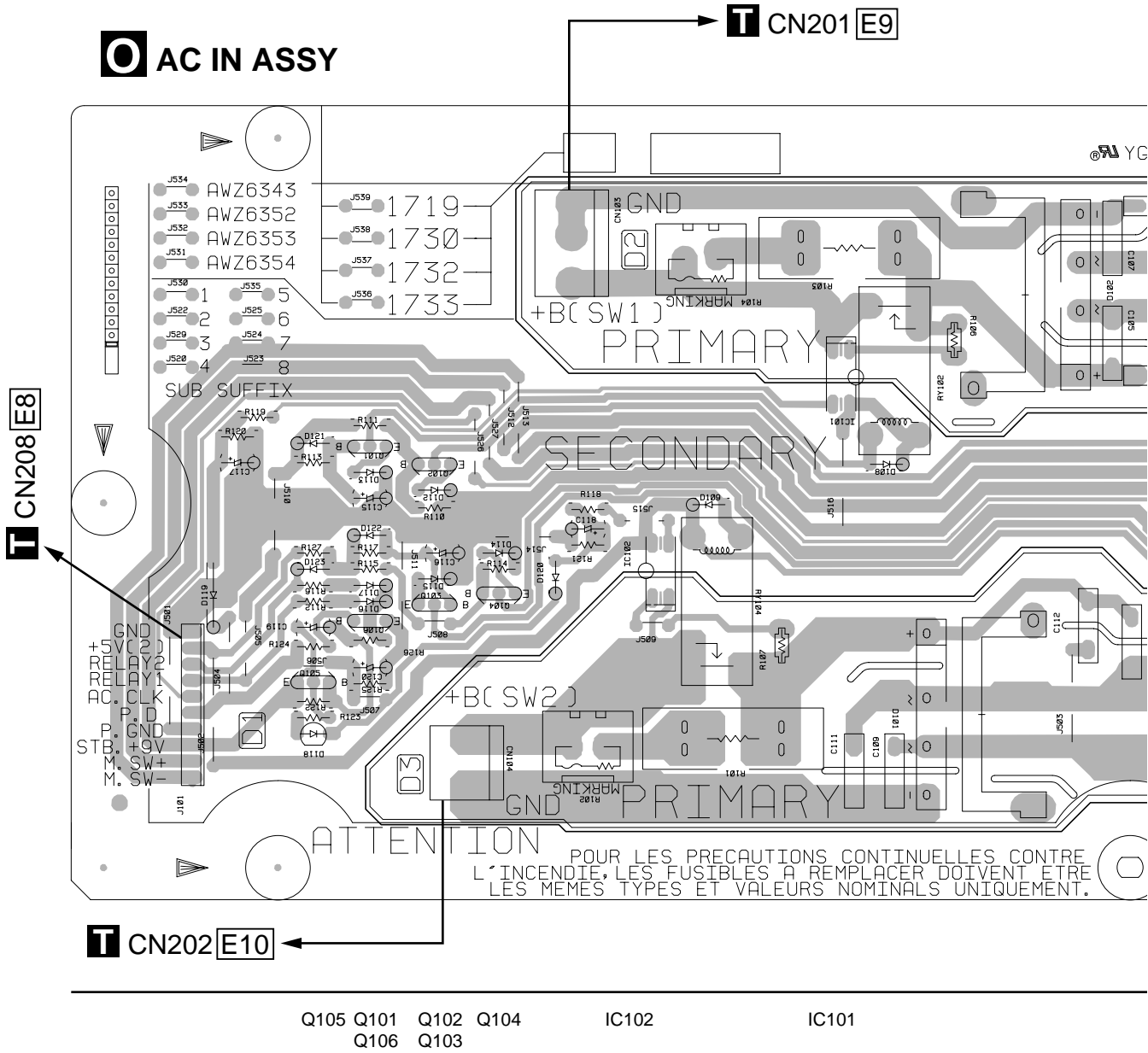


A

B

C

D





PRO-700HD
4.13 R CRT DRIVE ASSY

P R CRT DRIVE ASSY

SIDE A

B CN5251 **U2**

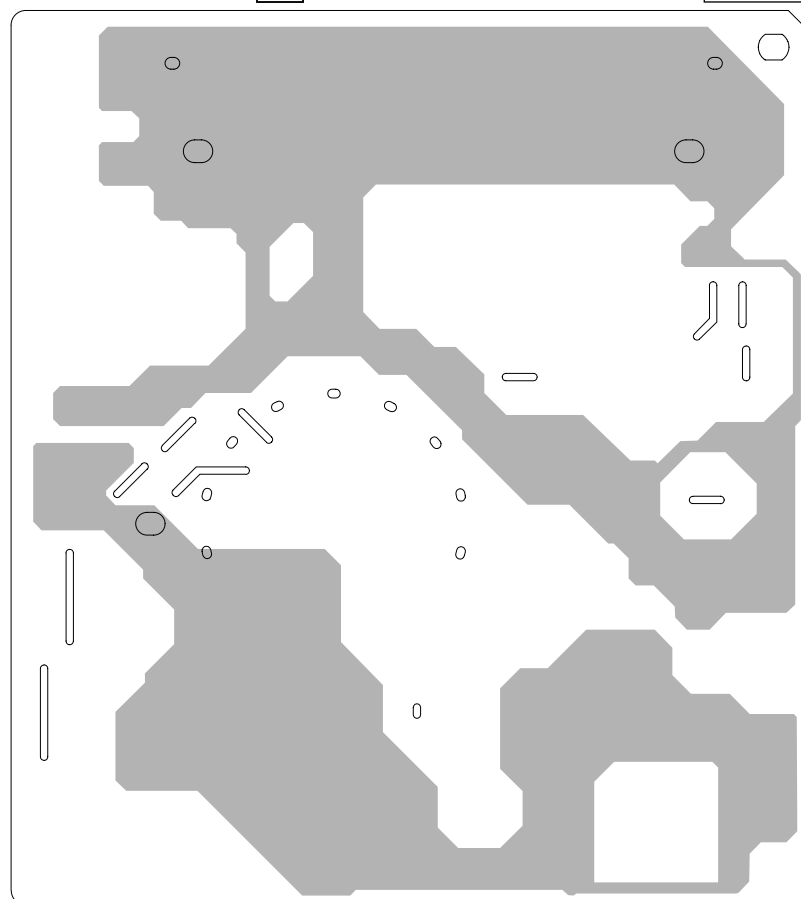
RED VM COIL

S CN801 **K5**

IC5101

SIDE B

Q J5152
S CN307 **K4**



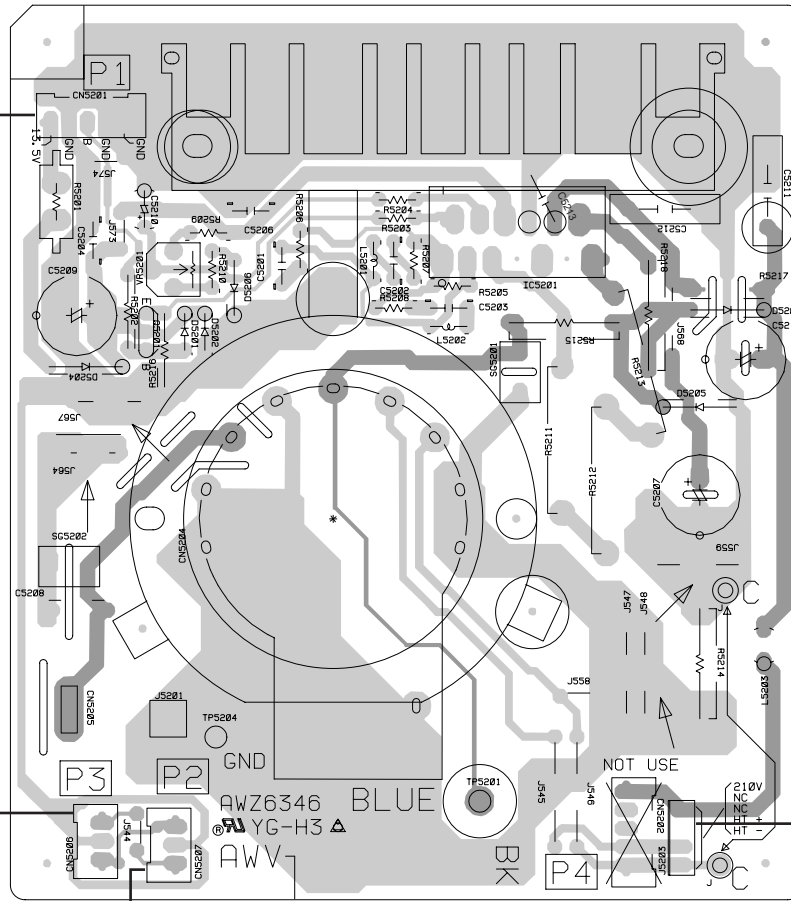
mark shows a high voltage generation point.

PRO-700HD
4.15 B CRT DRIVE ASSY

R B CRT DRIVE ASSY

SIDE A

B CN5251 **U2**

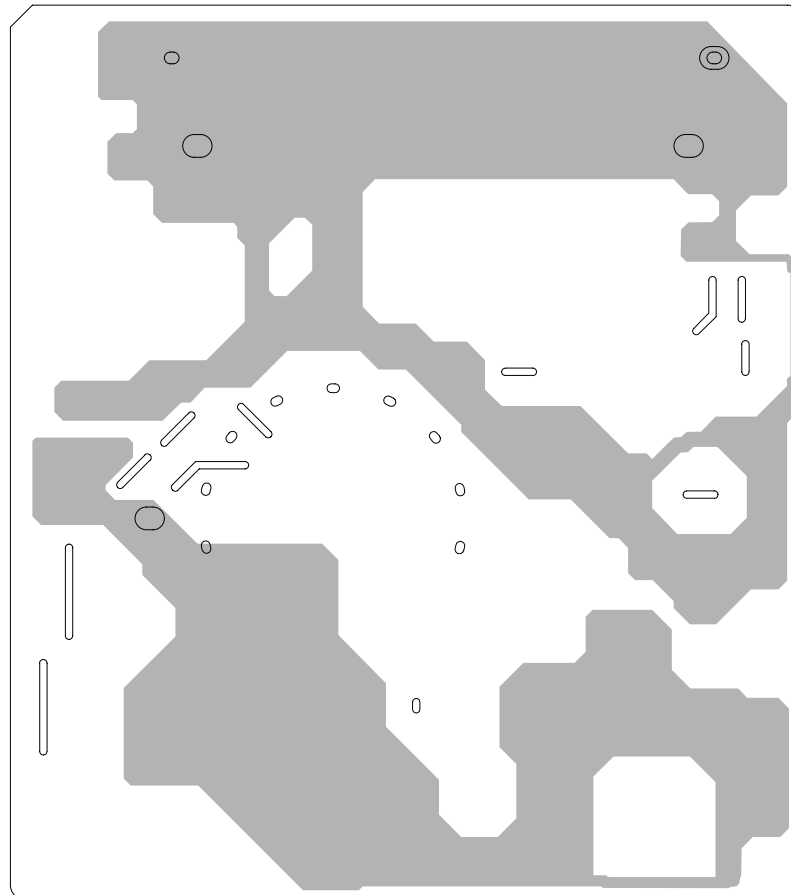


BLUE VM COIL

S CN801 **K5**

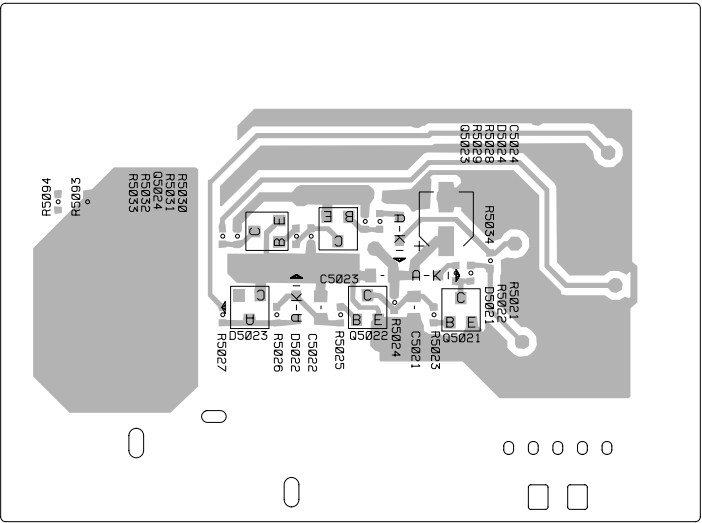
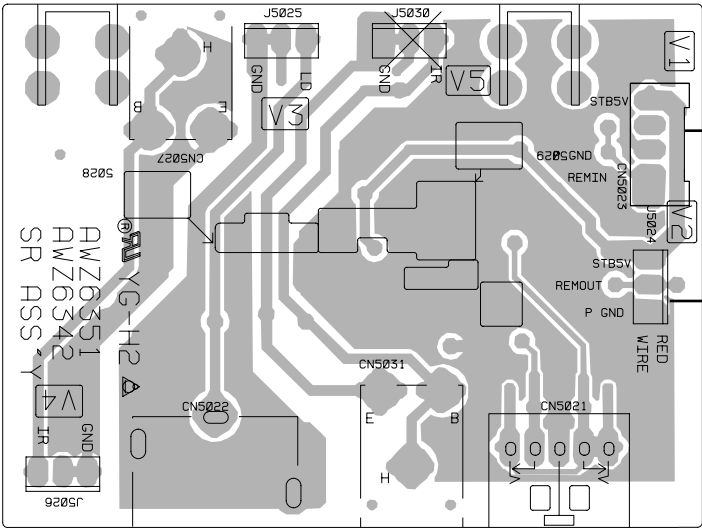
IC5201

SIDE B



Q J5203

4.16 SR BNC ASSY, R CRT DRIVE ASSY





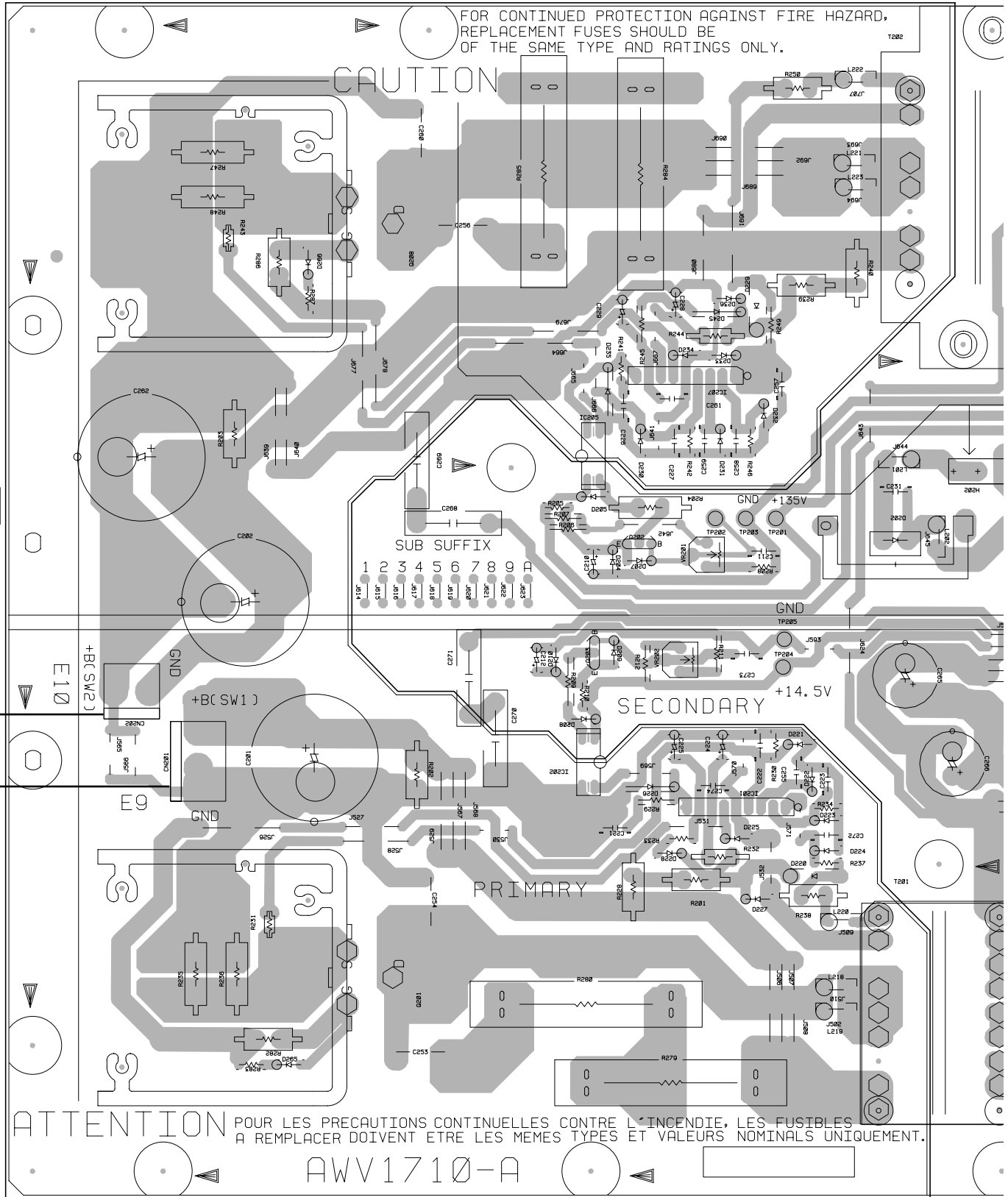
FOCUS VR

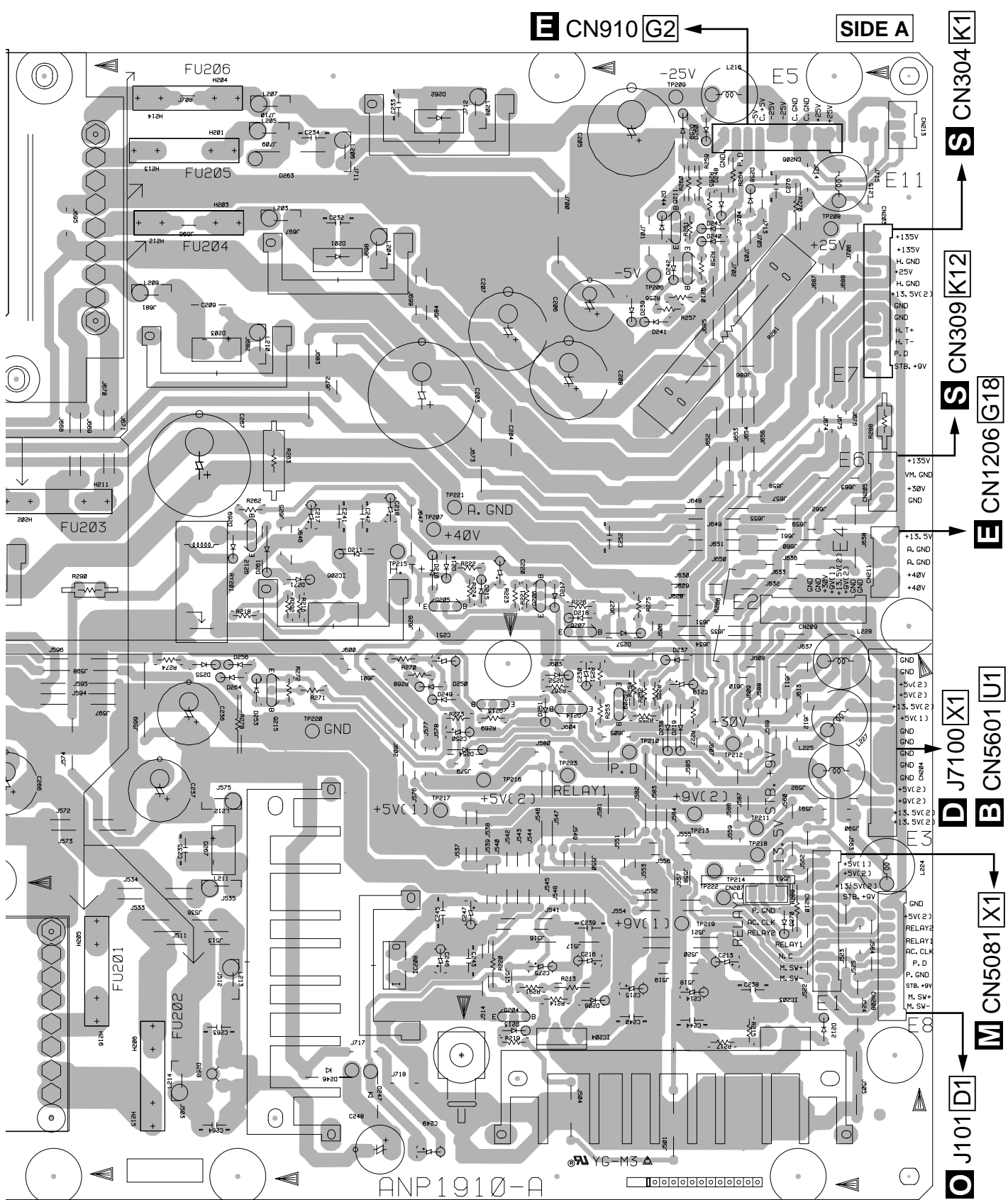


Q305
Q304
Q801
Q809

4.18 POWER SUPPLY ASSY

POWER SUPPLY ASSY





Q212	IC206	Q205	Q213	Q206	Q207	Q211	Q210	IC203
Q215		IC208	Q204		Q214	Q209		IC204

